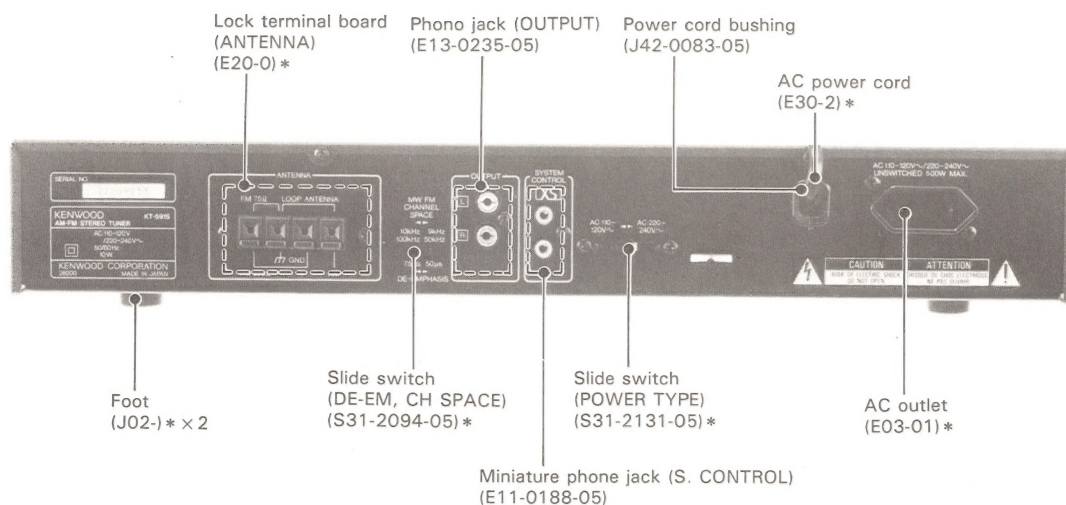
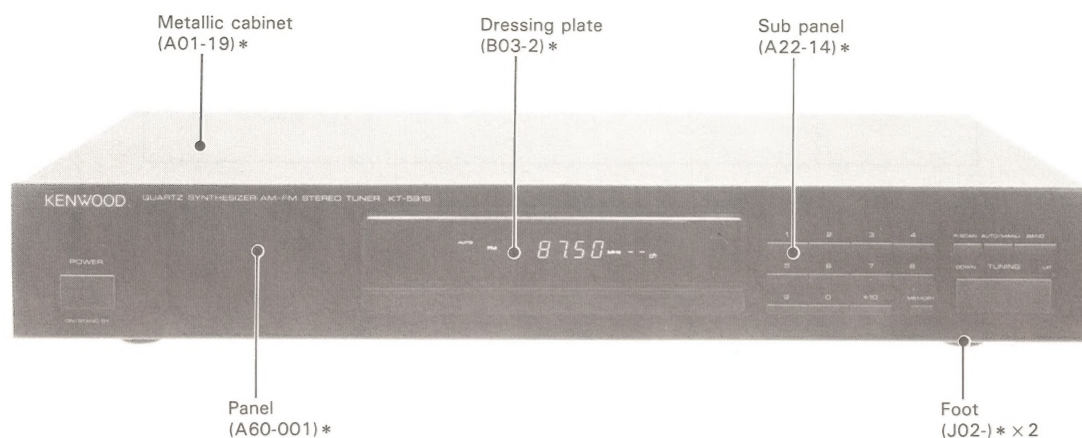


# KT-591/591S/1030L

## SERVICE MANUAL

# KENWOOD

©1991-1 PRINTED IN JAPAN  
B51-4284-00(T) 3753



[ KT-591 : K, P, Y, X type  
KT-591S : M type  
KT-1030L : T, E type ]

\* Refer to Parts List on page 34.  
Photo is KT-591S.

# KT-591/591S/1030L



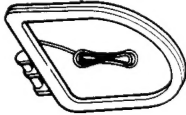




## CONTENTS

ACCESSORIES .....	2	PC BOARD (KT-591S: COMPONENT SIDE VIEW).....	13
BLOCK DIAGRAM.....	3	SCHEMATIC DIAGRAM (KT-591) .....	15
CIRCUIT DESCRIPTION.....	4	SCHEMATIC DIAGRAM (KT-591S).....	21
ADJUSTMENT .....	9	SCHEMATIC DIAGRAM (KT-1030L) .....	27
WIRING DIAGRAM .....	10	EXPLODED VIEW .....	33
PC BOARD .....		PARTS LIST .....	34
(KT-591/1030L: COMPONENT SIDE VIEW).....	11	SPECIFICATIONS.....	Back cover

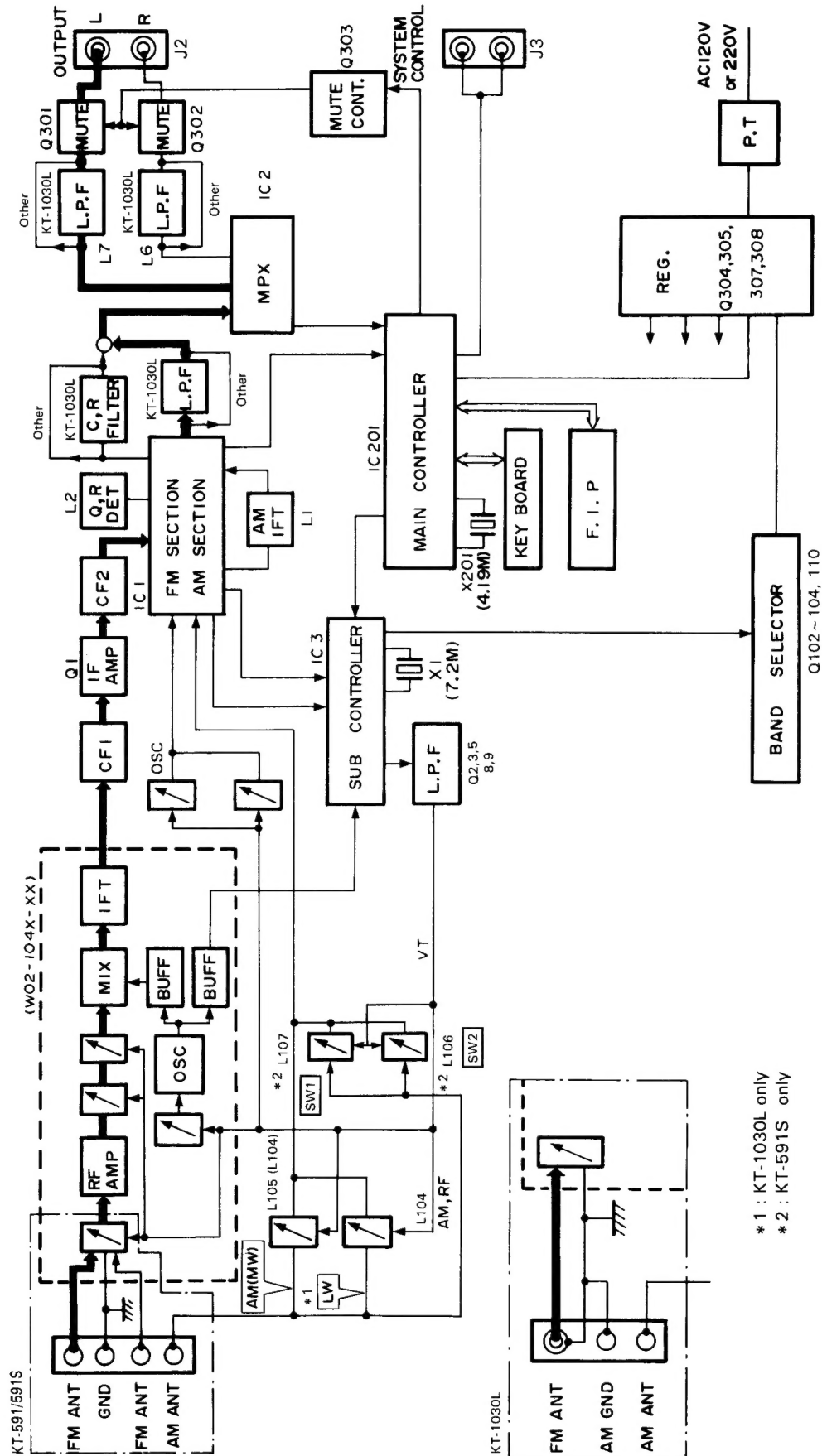
	JAPAN MADE	SINGAPORE MADE	FRANCE MADE
KT-591	X05-4040-10 (K,P) X05-4042-91 (Y) X05-4040-71 (X)	X05-4050-10 (K)	_____
KT-591S	X05-4060-20 (M)	_____	_____
KT-1030L	_____	X05-4050-51 (T) X05-4052-71 (E)	X05-4042-71 (E)

The KT-591 and KT-1030L are made in different countries. However, their circuits are identical.

## ACCESSORIES

<b>LOOP ANTENNA</b> <b>(T90-0153-05): FRANCE MADE</b>  	<b>T TYPE ANTENNA</b> <b>KT-1030L only</b> <b>(T90-0176-05): FRANCE MADE</b> <b>(T90-0175-05): SINGAPORE MADE</b>  
<b>LOOP ANTENNA</b> <b>(T90-0173-05): JAPAN MADE</b> <b>(T90-0174-05): SINGAPORE MADE</b>  	<b>ANTENNA ADAPTOR</b> <b>(T90-0177-05): KT-1030L only</b>  
<b>LEAD WIRE ANTENNA</b> <b>KT-591/591S only</b> <b>(T90-0182-05)</b>  	<b>ANTENNA HOLDER</b> <b>(J19-2815-04)</b>  
	<b>AUDIO CORD</b> <b>(E30-0615-05): KT-591/591S</b> <b>(E30-0505-05): KT-1030L</b>  

# BLOCK DIAGRAM



## CIRCUIT DESCRIPTION

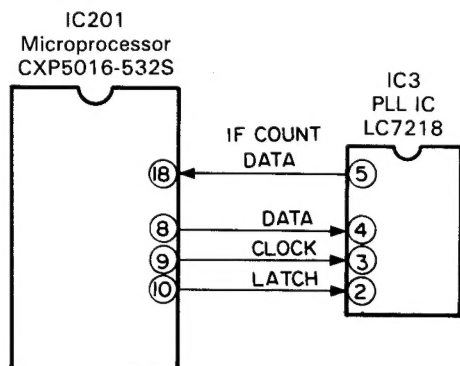
## 1. FEATURES

## (1) Receiving bands

The unit is capable of receiving five bands; FM, AM (MW), LW, SW1 and SW2. The PLL IC is either LC7218 or LM7001 depending on whether SW (short wave) bands is to be received or not.

For details, refer to the table showing models according to the destinations (Table 1).

## (2) IF count (when LC7218 is used)



When microcomputer pin SD goes low after the microcomputer has sent frequency data to the PLL, the IF count start data is sent to the PLL, which then starts counting the IF. When the microcomputer receives the IF count end signal from the PLL, the microcomputer reads IF count data from the PLL.

For MW/SW reception, the microcomputer identifies the receiving condition when the data becomes 450 kHz, sends the frequency data again to the PLL, and turns MUTING OFF in 0.5 second.

The TUNED indicator is lighted when the IF count result becomes OK.

IF counting is performed twice during auto tuning.

## (3) Auto tuning

The auto tuning starts when the UP or DOWN key is pressed while the AUTO indicator is lighted.

MUTING is set to ON during tuning.

Frequencies are scanned upward or downward at a rate of about 125 ms/step (or 500 ms/step at band edges) until the tuned condition (\*), in which the scanning stops.

(Pressing the UP key during upward tuning or pressing the DOWN key during downward tuning is invalid.)

MUTING is turned OFF in 0.5 second after the tuning has stopped.

## (\*) Tuned condition

Condition in which there is a broadcasting station and it is being received.

With LM7001 (PLL), the TUNED indicator lights up and tuned condition starts when pin SD goes Low.

With LC7218 (PLL), the tuned condition starts in the same way as with LM7001 for the FM band. For the MW/SW bands, the tuned condition starts following the process described in "(2) IF count" above.

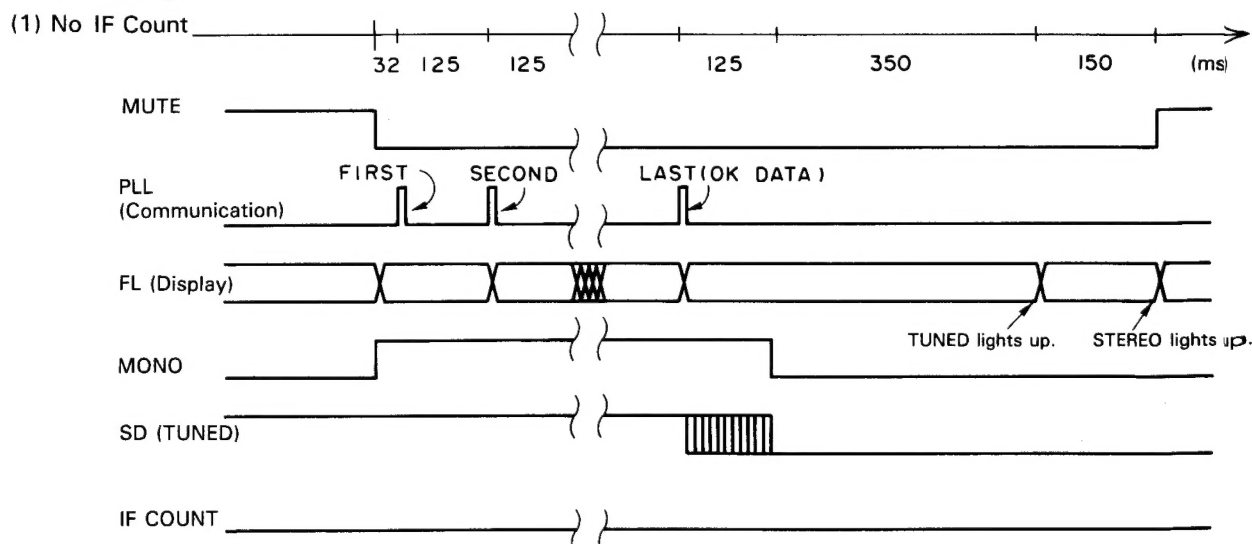
## (4) Manual tuning

When the "AUTO" display is off, when the UP or DOWN key is pressed, the tuning operation goes in the direction of increasing or decreasing frequency at a rate of one step per key pressure.

When the UP or DOWN key is pressed continuously for more than 0.5 sec, the tuning operation continues in the direction of increasing or decreasing direction at a rate of 125 mses/step irrespective of the SD terminal level until the key is released from the finger pressure, after which 0.5 sec later, muting is turned OFF.

## 2. TIMING CHART

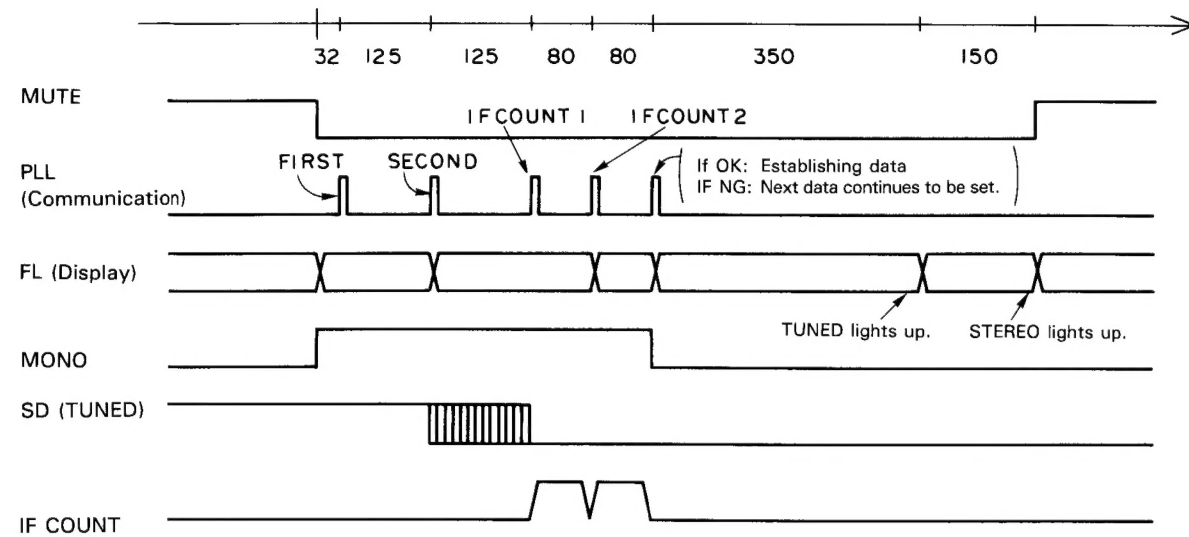
## Auto tuning





## CIRCUIT DESCRIPTION

(2) With IF count



## 3. Conditions by destination

Desti- nation Type		Destination switches				Band	Receiving frequency range	Inter-channel space (Hz)	IF	RF (Hz)	PLL (IC)	
		3	2	1	0							
K	K1	0	0	1	0	FM	87.5 ~ 108.0 MHz	100 k	+ 10.7 MHz	50 k	LM7001	AM Narrow
						AM	530 ~ 1610 kHz	10 k	+ 450 kHz	10 k		
	K2	0	0	0	0	FM	87.5 ~ 108.0 MHz	100 k	+ 10.7 MHz	50 k	LM7001	AM Wide
						AM	530 ~ 1700 kHz	10 k	+ 450 kHz	10 k		
	K3	1	0	1	0	FM	87.5 ~ 108.0 MHz	100 k	+ 10.7 MHz	50 k	LC7218	With SW
						MW	530 ~ 1610 kHz	10 k	+ 450 kHz	10 k		
						SW1	3.2 ~ 7.3 MHz	5 k	+ 450 kHz	5 k		
						SW2	9.5 ~ 21.85 MHz	5 k	+ 450 kHz	5 k		
E	E1	0	1	1	0	FM	87.5 ~ 108.0 MHz	50 k	+ 10.7 MHz	50 k	LM7001	
						AM	531 ~ 1603 kHz	9 k	+ 450 kHz	9 k		
	E2	0	1	1	1	FM	87.5 ~ 108.0 MHz	50 k	+ 10.7 MHz	50 k	LM7001	With LW
						MW	531 ~ 1603 kHz	9 k	+ 450 kHz	9 k		
						LW	153 ~ 281 kHz	1 k	+ 450 kHz	1 k		
	E3	1	1	1	0	FM	87.5 ~ 108.0 MHz	50 k	+ 10.7 MHz	50 k	LC7218	With SW
						MW	531 ~ 1603 kHz	9 k	+ 450 kHz	9 k		
						SW1	3.2 ~ 7.3 MHz	5 k	+ 450 kHz	5 k		
						SW2	9.5 ~ 21.85 MHz	5 k	+ 450 kHz	5 k		

(Table 1)

(\*) BAND Selection (1: With diode/0: Without diode)  
 BAND 3 ..... With SW/Without SW  
 BAND 2 ..... STEP 9 k, 50 k/10 k, 100 k  
 BAND 1 ..... AM Narrow/Wide  
 BAND 0 ..... With LW/Without LW

## CIRCUIT DESCRIPTION

## 4. Initial status setting (reset)

## (1) Method of setting

While pressing the MEMORY key, turn AC ON.

## (2) Contents

- ① POWER: OFF
- ② MUTE: ON
- ③ Forced MONO: OFF
- ④ FL display: All off
- ⑤ State: RAM state = All clear  
Tuning mode = AUTO  
Memory = Test frequency (Table 2)  
Last band = FM  
Last frequency = Lowermost limit of each band.  
Last P. CH = [ -- ch ]

## 5. Test frequency

P.ch	KT-591		KT-1030L	KT-591S
	FM 50 k/AM 9 k	FM 100 k/AM 10 k	With LW	With SW
01ch	FM 98.0 MHz	FM 98.0 MHz	FM 98.0 MHz	FM 98.0 MHz
02ch	FM 108.0 MHz	FM 108.0 MHz	FM 108.0 MHz	FM 108.0 MHz
03ch	AM 630 kHz	AM 620 kHz	AM 620 kHz	AM 620 kHz
04ch	AM 990 kHz	AM 990 kHz	AM 990 kHz	AM 990 kHz
05ch	AM 1440 kHz	AM 1440 kHz	AM 1440 kHz	AM 1440 kHz
06ch	AM 1602 kHz	AM 1610 kHz	AM 1610 kHz	AM 1610 kHz
07ch	FM 87.5 MHz	AM 1700 kHz (FM 87.5 MHz)	LW 162 kHz	FM 87.5 MHz
08ch	FM 87.5 MHz		LW 216 kHz	SW1 5.0 MHz
09ch	FM 87.5 MHz	FM 87.5 MHz	LW 270 kHz	SW2 15.0 MHz
10ch	FM 89.1 MHz	FM 89.1 MHz	FM 89.1 MHz	FM 89.1 MHz
11ch	FM 87.5 MHz	FM 87.5 MHz	LW 281 kHz	SW1 3.2 MHz
12ch	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	SW1 3.5 MHz
13ch	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	SW1 5.0 MHz
14ch	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	SW1 6.8 MHz
15ch	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	SW1 7.3 MHz
16ch	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	SW2 9.5 MHz
17ch	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	SW2 10.0 MHz
18ch	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	SW2 15.0 MHz
19ch	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	SW2 18.5 MHz
20ch	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	SW2 21.85 MHz

(Table 2)

## 6. Test mode

## (1) Method of setting

While holding the DOWN key depressed, plug the AC power cord to the power outlet.

## (2) Display of test mode

When the test mode is set, all FL tubes are lit up. The FL tubes are kept lit until there is a key entry which results in a change of the FL frequency display.

## (3) Operations in test mode

The operations are basically the same as in normal operation modes. Only difference lies in the processing accompanying the + 10 key and 0 key (numeric keys).

Namely, the preset channel definition method using the + 10 key and numeric keys is different in the test mode. The preset channels are divided into three groups as shown below.

- { 01 ch - 10 ch / 0 - ch / -- ch } : Group 1
- { 11 ch - 20 ch / 1 - ch } : Group 2
- { 21 ch - 30 ch / 2 - ch } : Group 3

When the current channel is in group 1, the 1 to 9 keys represent "01 ch" to "09 ch", and the 0 key represent "10 ch". Change from group 1 to another group does not occur until the + 10 key is pressed.

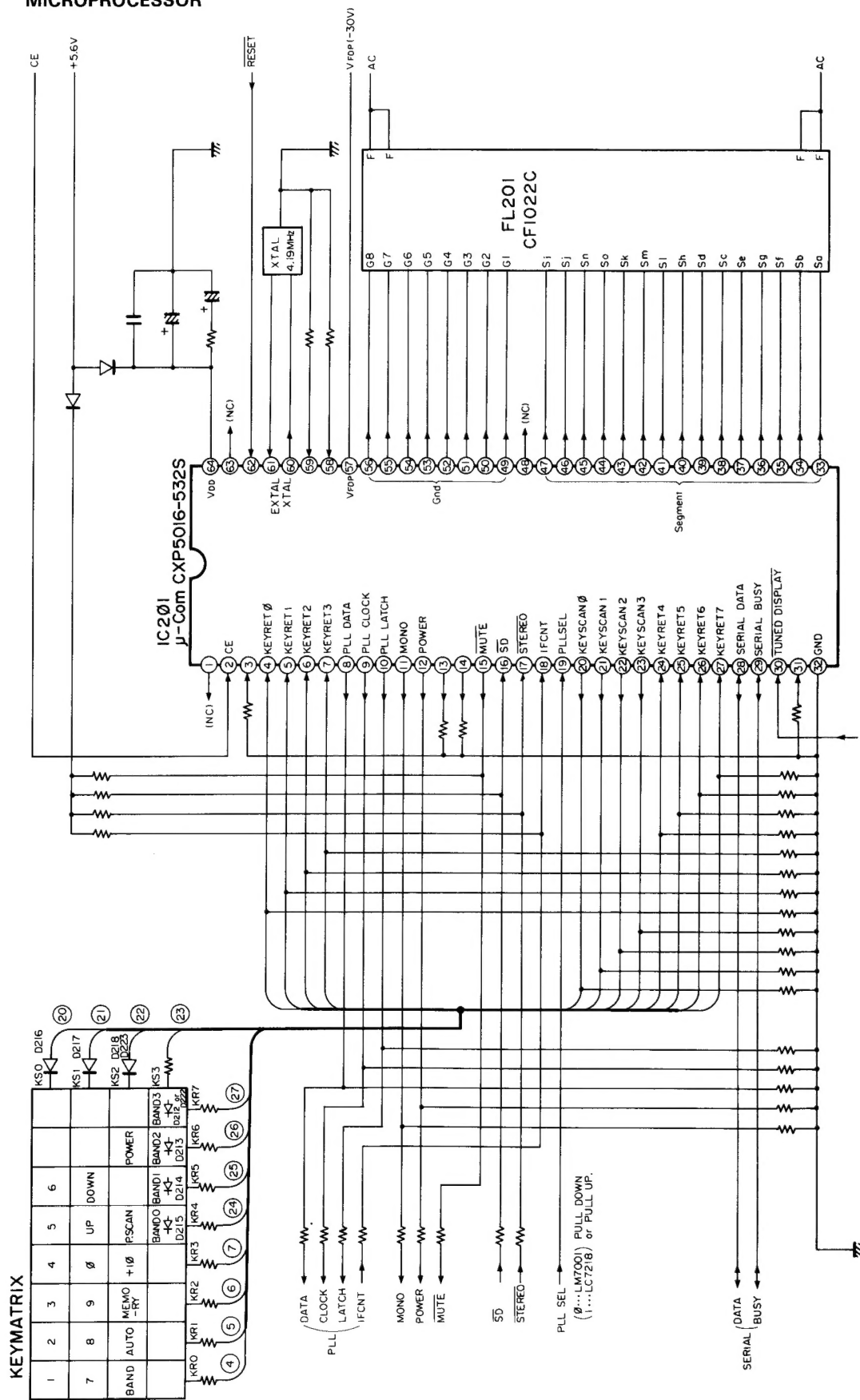
Pressing the + 10 key allows to change the group. When it is pressed while the current group is group 1, the display changes to "1- ch" and the current group is changed to group 2. Pressing the key while the current group is group 2 changes it to group 3 ("2- ch" display), and pressing the key while the current group is group 3 changes it to group 1 ("0- ch" display).

## (4) Method of canceling

Unplug the AC power cord.

CIRCUIT DESCRIPTION

7. IC 201: CXP5016-532S  
MICROPROCESSOR



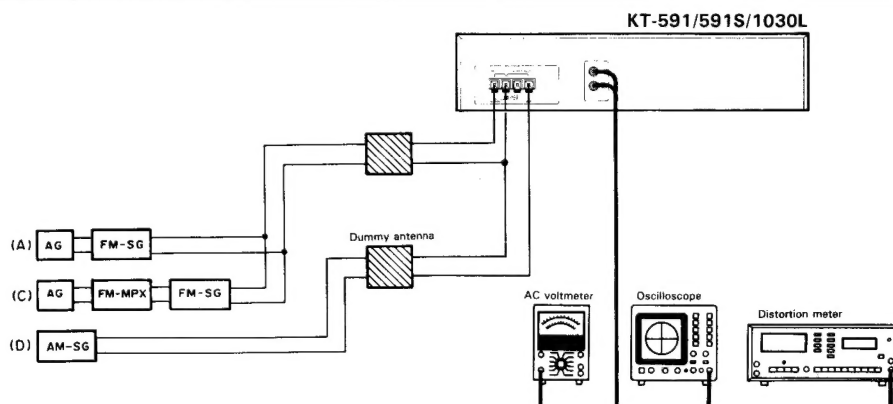
CIRCUIT DESCRIPTION

Pin functions

Pin No.	Pin name	I/O	Name	Operation description
1	PWM/PY1	O		No used
2	WP/PY2	I	$\overline{CE}$	Chip enable pin. Active low
3	RMC/EC/PY3	O		No use
4 ~ 7		I	KR0 ~ KR3	Key return input. KR0 ~ KR3
8	PD0	O	PLLDAT	PLL DATA output
9	PD1	O	PLLCK	PLL CLOCK output
10	PD2	O	PLLCE	PLL CE output
11	PD3	O	PMONO	Forced MONO output H: ON L: OFF
12	PC0	O	PPOWER	Power ON/OFF control H: ON L: OFF
13,14		O		No used
15	PC3	O	PMUTE	Line mute Active low
16	PEC	I	$\overline{PSD}$	SD pin Active low
17	PF1	I	$\overline{PSTEREO}$	Stereo signal input H: MONO L: STEREO
18	PF2	I	PFCNT	IF COUNT pin. On when IF count is finised
19	PF3	I	PLLSEL	PLL select pin H: LC7218 L: LM7001
20 ~ 23	PE0 ~ PE3	O	KS0 ~ KS3	Key scan output KS0 ~ KS3
24 ~ 27	PB0 ~ PB3	I	KR4 ~ KR7	Key return input KR4 ~ KR7
28	PA0	I/O	SDATA	System control DATA
29	PA1	I/O	SBUSY	System control BUSY
30	PA2	I	$\overline{PSDD DISP}$	"TUNED" display pin. Active low
31	PA3	I		No used
32	Vss	—	GND	GND pin
33 ~ 48		O	Sa ~ Sn	FDP segment Sa ~ Sn
49 ~ 56		O	G1 ~ G8	FDP grid G1 ~ G8
57	V_FDP	—	V_FDP	— 30 V
58,59		I		No used
60	XTAL	O		Quartz oscillator output.
61	EXTAL	I		Quartz oscillator input.
62	RST	I	RESET	Forced reset pin. Active low
63	PYO	O		No used.
64	VDD	—	VDD	Power supply.

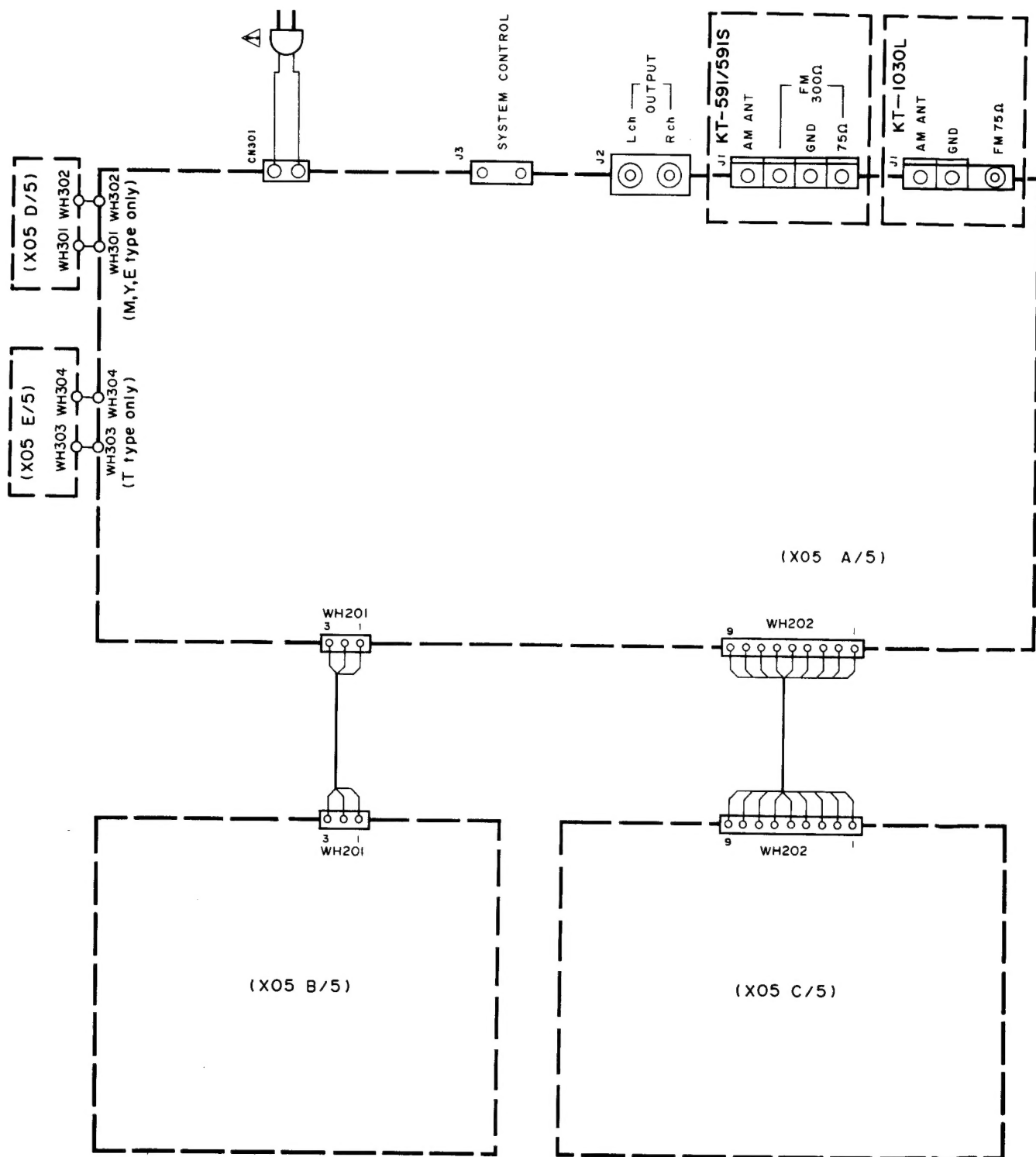
## ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		SELECTOR: FM					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, $\pm 75$ kHz dev <KT-591/591S> 1kHz, $\pm 40$ kHz dev <KT-1030L> 60dB $\mu$ (ANT input)	Connect a DC voltmeter between TP3 and TP4. (X05-)	AUTO or MONO 98.0MHz	L2 (X05-) L9 (X05-) <KT-1030L only>	0V  Minimum distortion	(a)
2	VCO <KT-591/1030L only>	(A) 98.0MHz 0 dev 60dB $\mu$ (ANT input)	Connect a frequency counter to TP5 and TP6 (GND). (X05-)	AUTO 98.0MHz	VR2 (X05-)	19.00kHz	(b)
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, $\pm 68.25$ kHz dev Pilot: $\pm 7.5$ kHz dev <KT-591/591S> 1kHz, $\pm 40$ kHz dev Pilot: $\pm 6$ kHz dev <KT-1030L> 60dB $\mu$ (ANT input)	(B)	AUTO 98.0MHz	IFT (W02-)	Minimum distortion	
4	SEPARATION  <KT-591S/1030L only>	(C) 98.0MHz 1kHz, $\pm 68.25$ kHz dev Pilot: $\pm 7.5$ kHz dev <KT-591S> 1kHz, $\pm 40$ kHz dev Pilot $\pm 6$ kHz dev <KT-1030L> Selector: L or R 60dB $\mu$ (ANT input)	(B)	AUTO 98.0MHz	VR5 (X05-) <KT-591S>  VR4 (X05-) <KT-1030L>	Minimum crosstalk	
5	TUNING LEVEL	(A) 98.0MHz 1kHz, $\pm 75$ kHz dev <KT-591/591S> 1kHz, $\pm 45$ kHz dev <KT-1030L> 14dB $\mu$ (ANT input) 75% 18dB $\mu$ (ANT input) 300%	(B)	AUTO or MONO 98.0MHz	VR1 (X05-)	Adjust VR1 and stop at the point where FL201(two dots) goes ON.	
AM (MW) SELECTION		SELECTOR: AM(MW)					
(1)	TUNING LEVEL	(D) 1008kHz 400Hz, 30% mod 26dB $\mu$ (ANT input)	(B)	1008kHz	VR3 (X05-)	Adjust VR3 and stop at the point where FL201(two dots) goes on.	



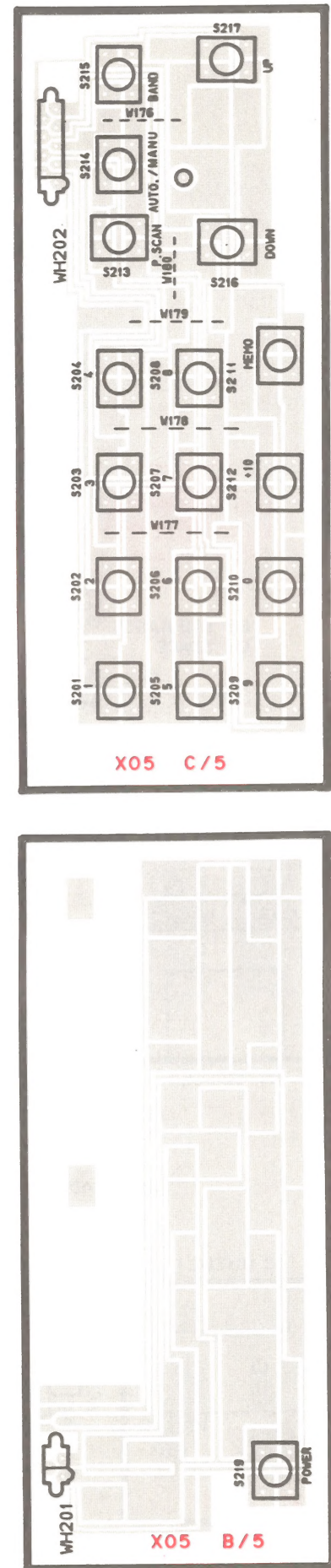
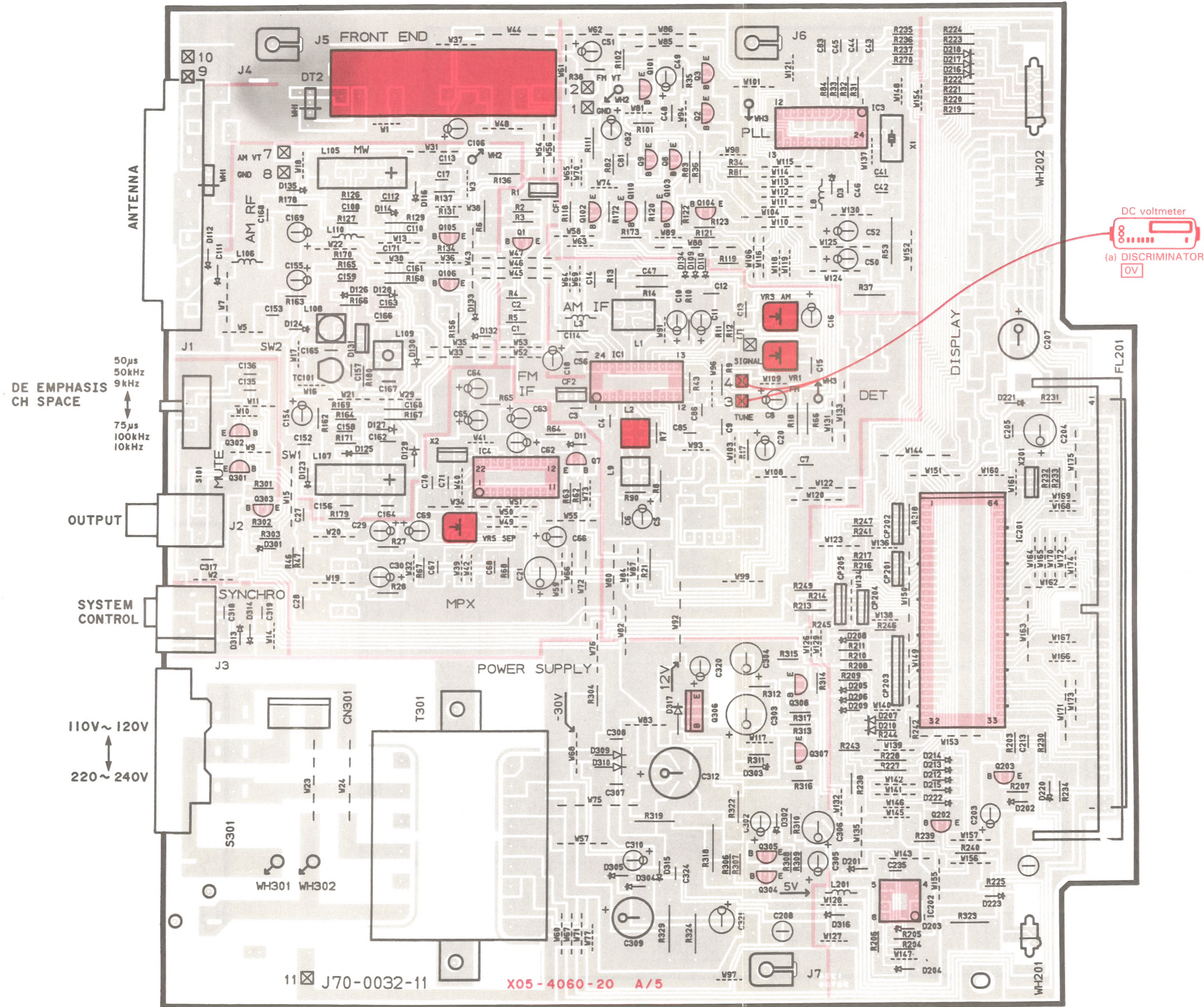
# KT-591/591S/1030L

## WIRING DIAGRAM



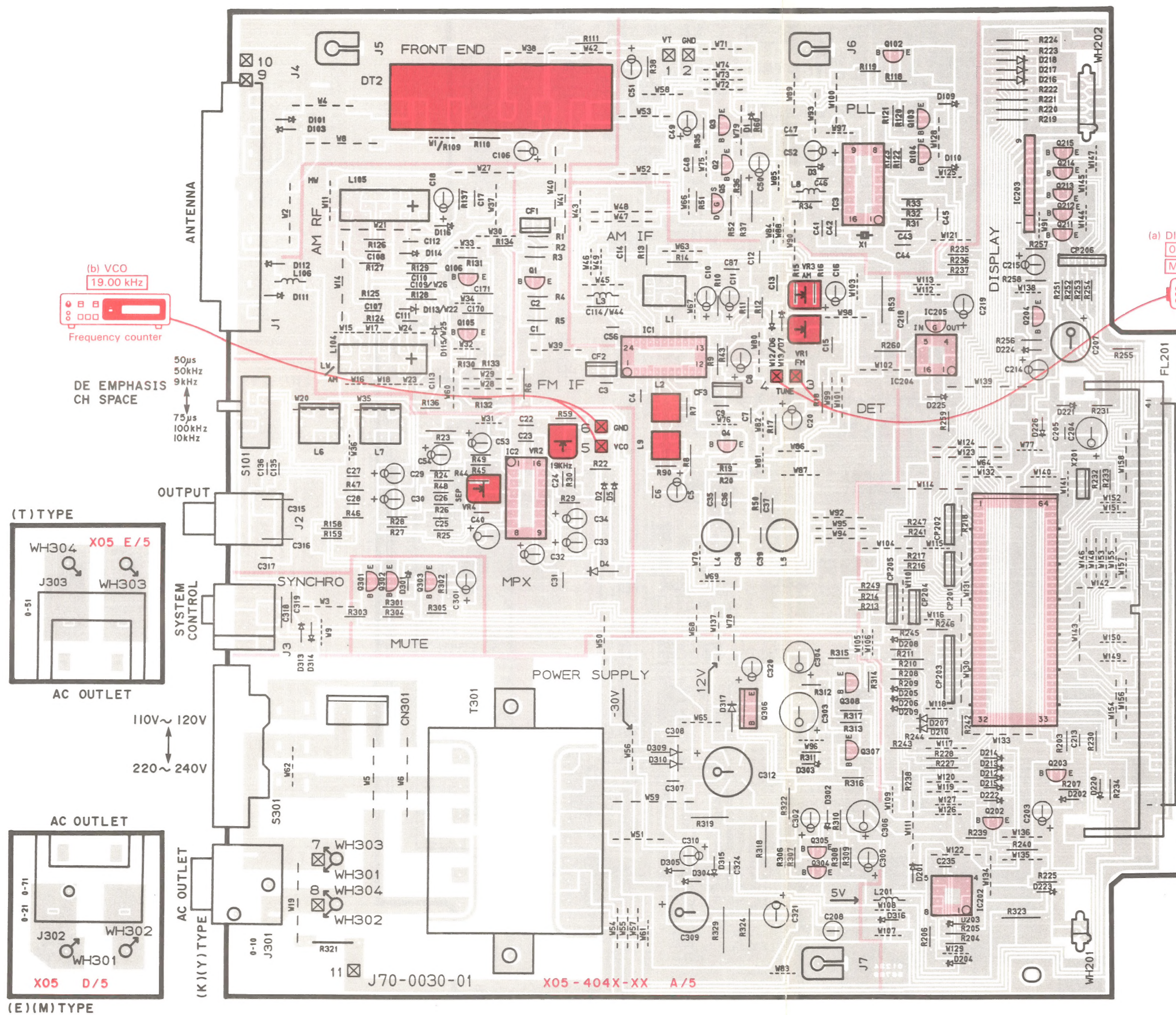


PC BOARD (KT-591S: Component side view)



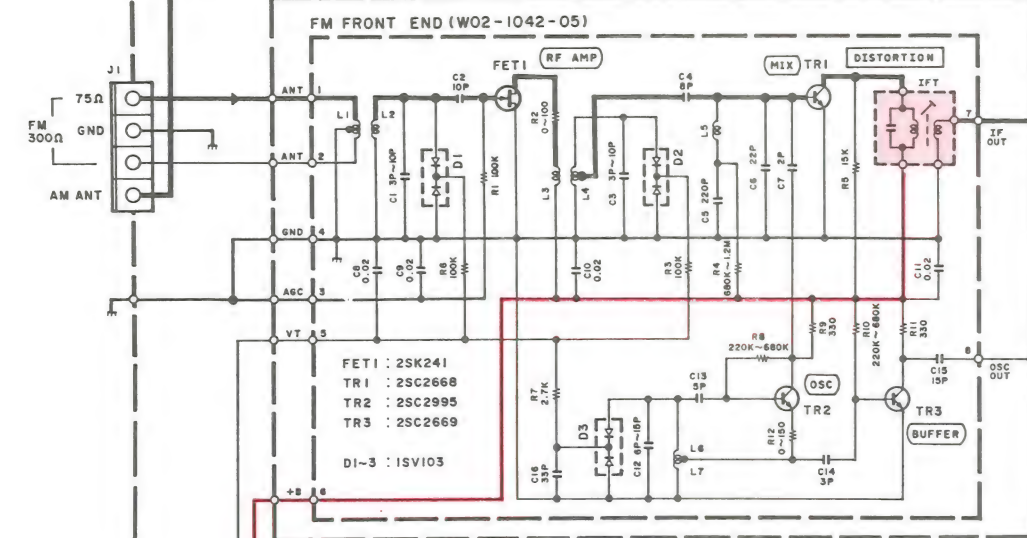


# PC BOARD (KT-591/1030L: Component side view)





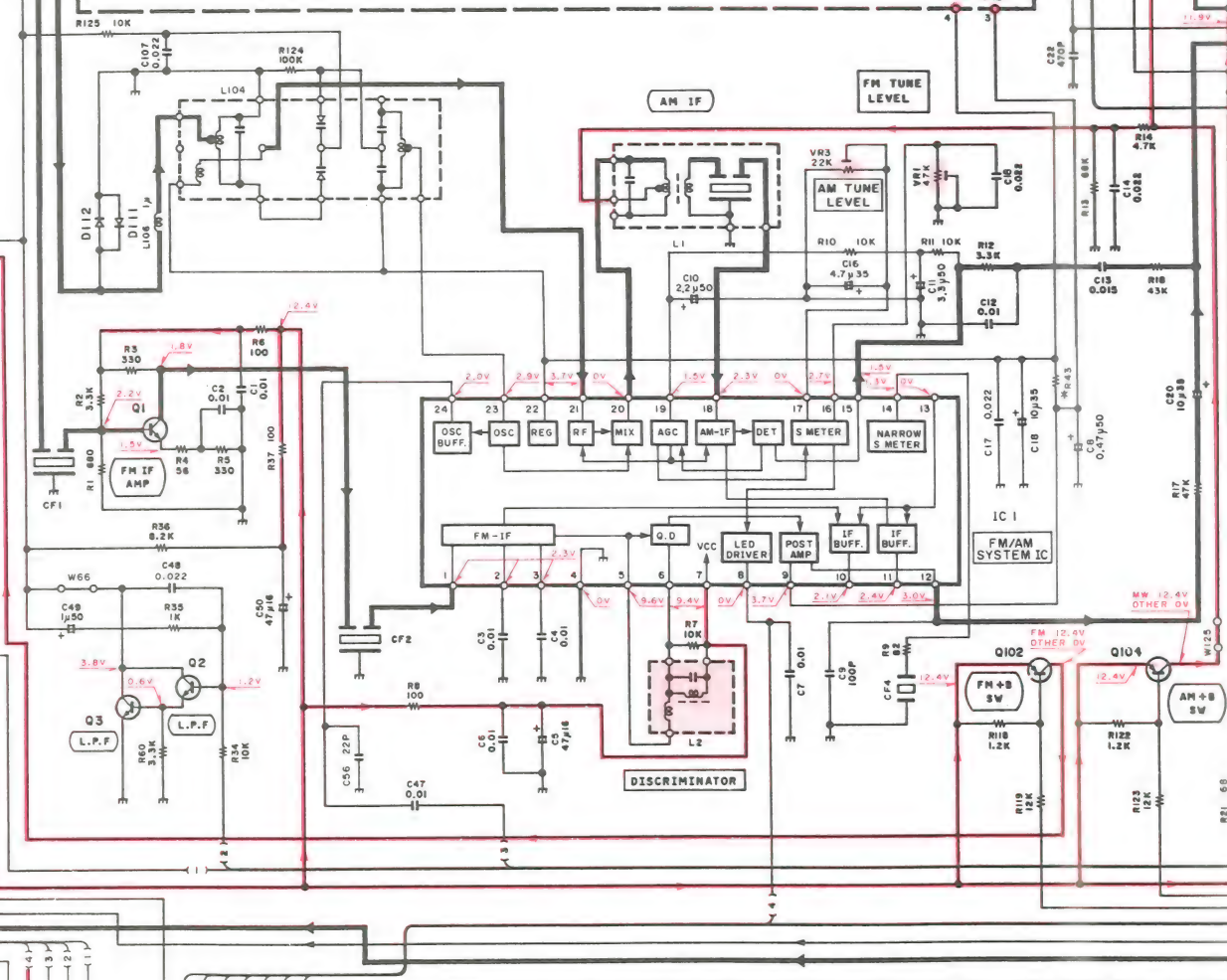
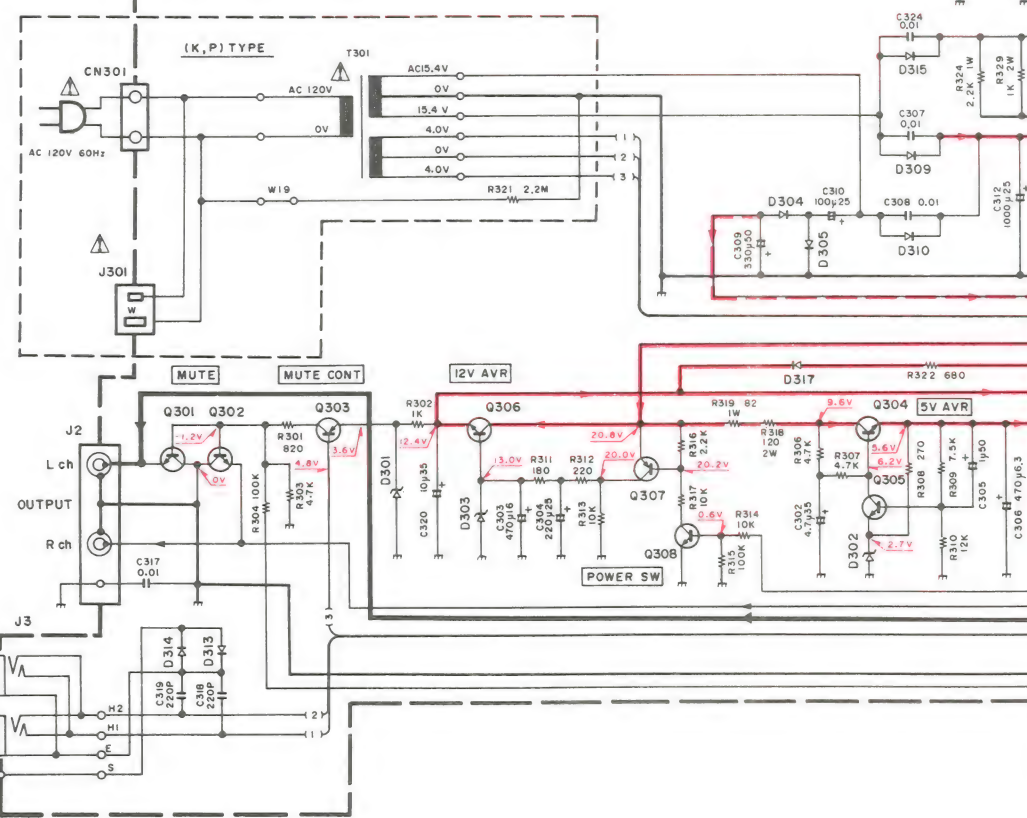
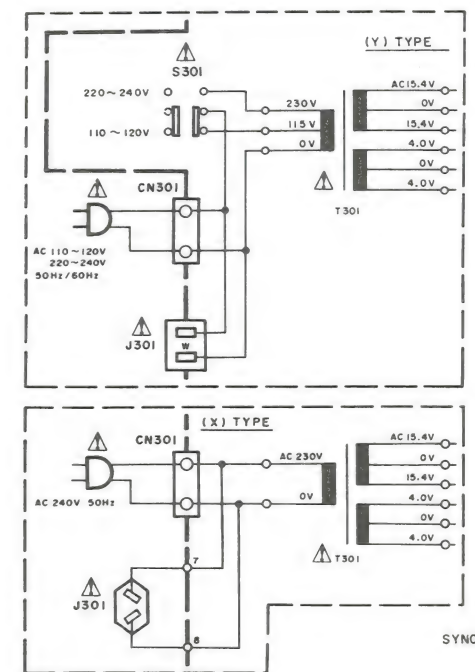
TUNER UNIT  
(X05-404X-XX) (A/5) JAPAN MADE  
(X05-405X-XX) (A/5) SINGAPORE MADE



- IC1 : LA1266  
IC2 : AN7470  
IC3 : LM7001
- Q1 : 2SC1923 (R,O)  
Q2 : 2SC1845 (F,E)  
Q3, 305, 308 : 2SC1740S (Q,R) or 2SC3311A (Q,R)  
Q102, 104, 303, 307 : 2SA933S (Q,R) or 2SA1309A (Q,R)  
Q301, 302 : 2SD1302 (S,T)  
Q304 : 2SC2003 (L,K)  
Q306 : 2SD1266 (Q,P)

- C2, 4, 5, 111, 112, 313 ~ 317 : 1SS133 or HSS104  
D3 : RD5.1ES (B2) or HZS5.1N (B2)  
D301 : RD3.3ES (B2) or HZS3.3N (B2)  
D302 : RD2.7ES (B2) or HZS2.7N (B2)  
D303 : RD1.3ES (B2) or HZS1.3N (B2)  
D304, 305 : 1SS131 or HSS104A  
D309, 310 : S5688B or ISR139-100

SIGNAL LINE  
GND LINE  
+B LINE  
-B LINE

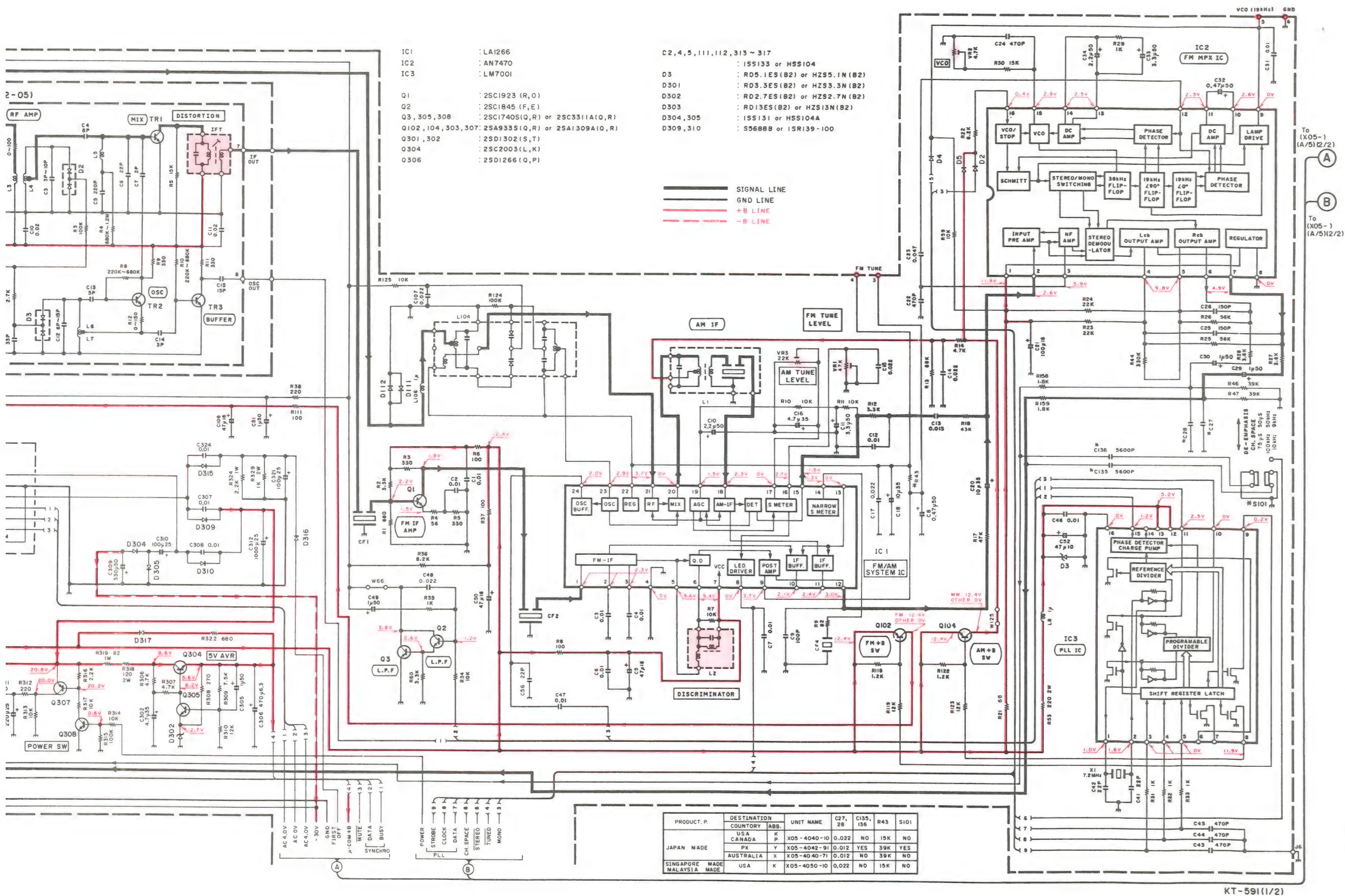


PRODUCT P.	DESTINATION COUNTRY	UNIT NAME	C27, 28	C135, 136	R43	S101
JAPAN MADE	USA	K	X05-4040-10	0.022	NO	15K
CANADA	PX	Y	X05-4042-91	0.012	YES	39K
AUSTRALIA	X	Y	X05-4040-71	0.012	NO	39K
SINGAPORE MADE	USA	K	X05-4050-10	0.022	NO	15K
MALAYSIA MADE						

POWER  
STROBE  
CLOCK  
DATA  
CH. SPACE  
STEREO  
TUNED  
MONO

AC 4.0V  
AC 0V  
AC 0V  
AC 0V  
GND  
FIRST OFF  
P-COM 48  
MUTE  
DATA  
BUSY  
SYNCHRO





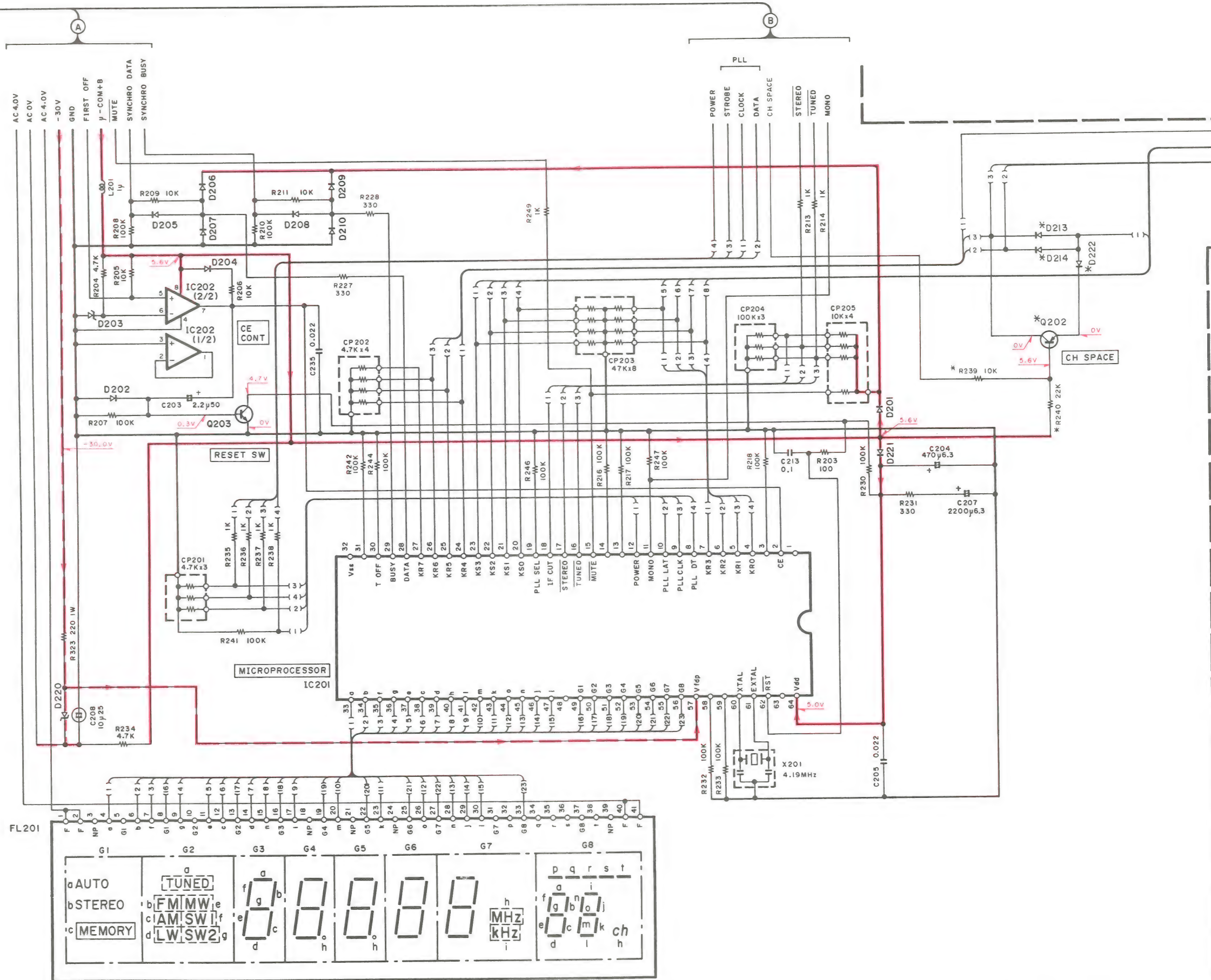
DC voltages are as measured with a high-impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



To (X05-)  
(A/5)(1/2)

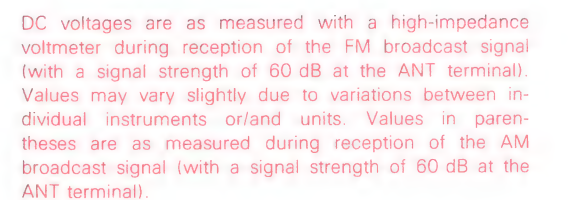
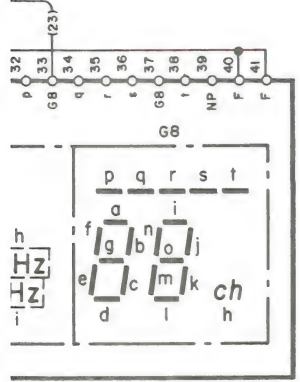
To (X05-)  
(A/5)(1/2)



IC201	: CXP5016-532S	D201,
IC202	: BA10393	221
Q202	: 2SA933S(Q,R) or 2SA1309A(Q,R)	D203
Q203	: 2SC1740S(Q,R) or 2SC3311A(Q,R)	D220
FL201	: CF1022C	

(X05-40XX-XX)(A/5)			
PRODUCT.P.	DESTINATION		UNIT NAME
	COUNTRY	ABB.	
JAPAN MADE	U.S.A	K	X05-4040-10
	CANADA	P	X05-4042-9
	AUSTRALIA	X	X05-4040-7
SINGAPORE MADE	U.S.A	K	X05-4050-10
MALAYSIA MADE			





KT-591 (2/2)

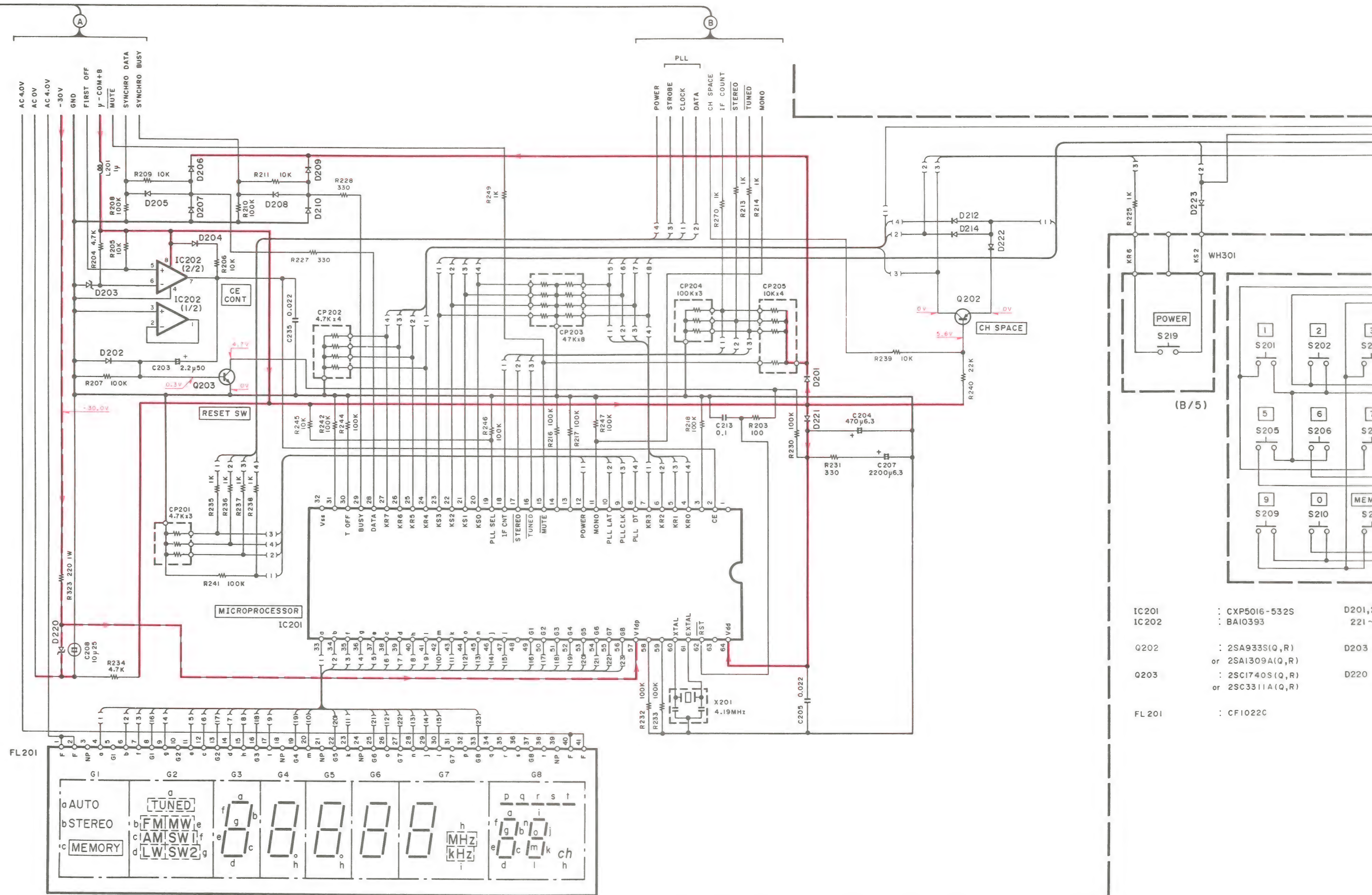
Y07-3420-10

**KT-591**  
**KENWOOD**



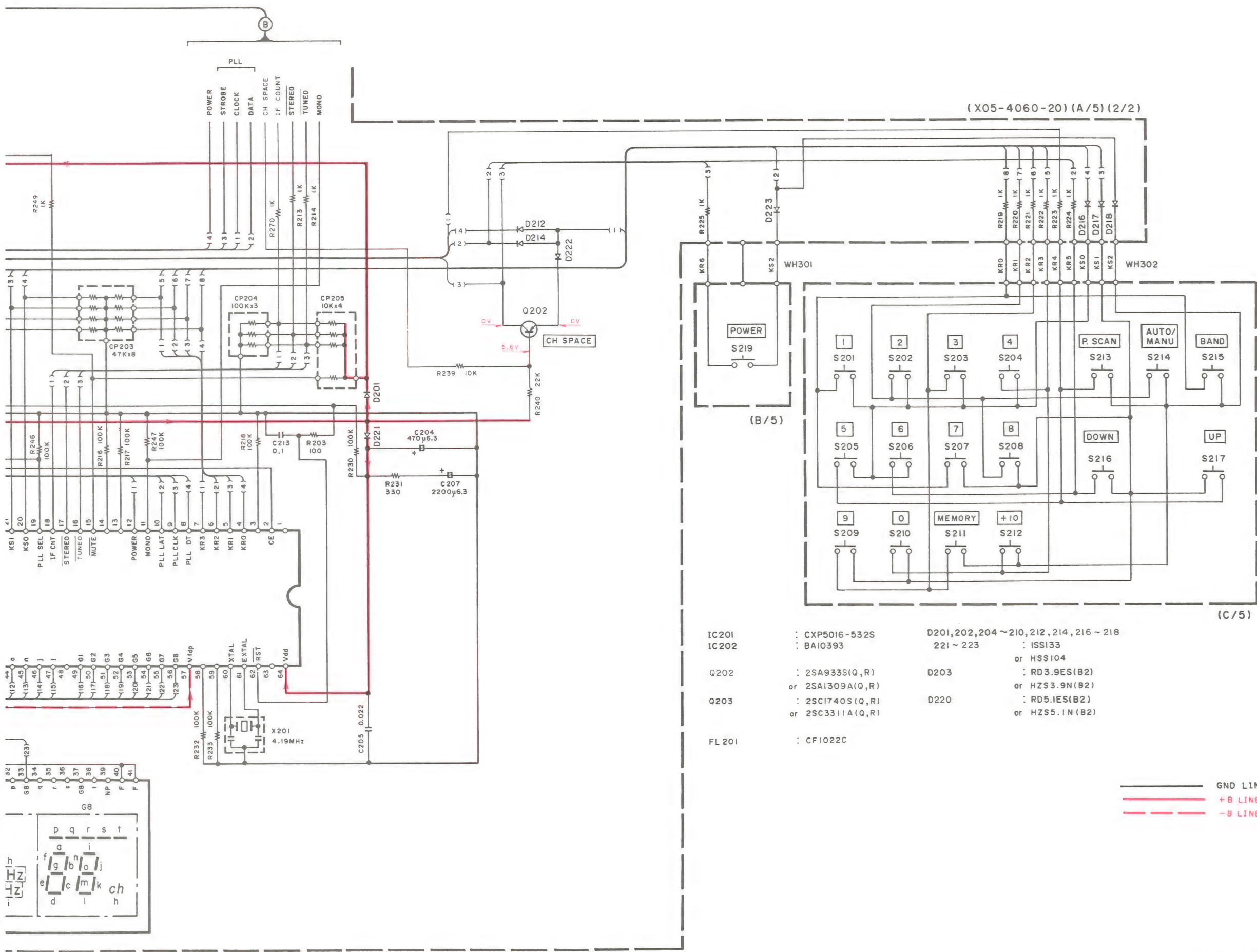
To (X05-)  
(A/5)(1/2)

To (X05-)  
(A/5)(1/2)

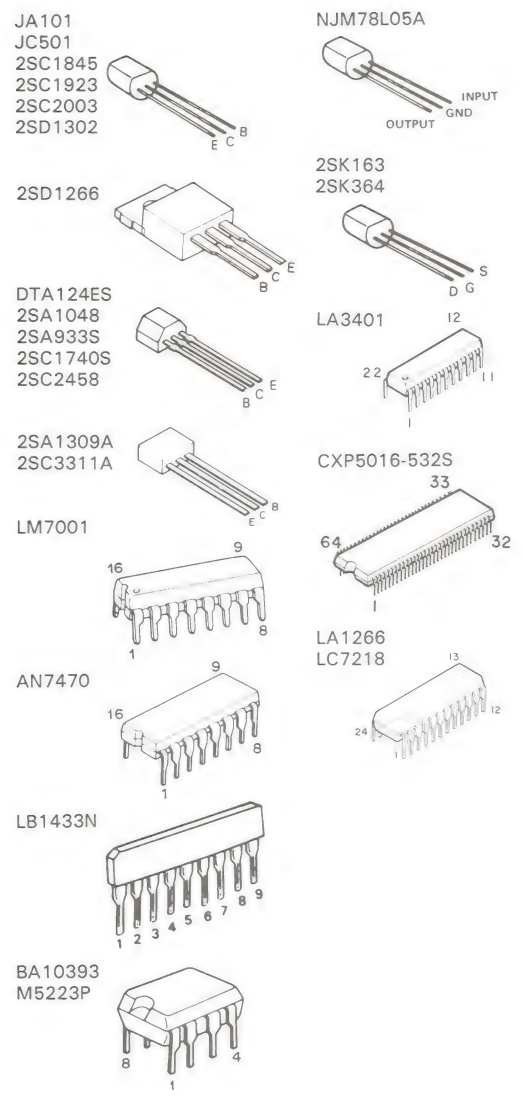


IC201	: CX5016-532S	D201,2
IC202	: BA10393	221 ~
Q202	: 2SA933S(Q,R)	D203
	or 2SA1309A(Q,R)	
Q203	: 2SC1740S(Q,R)	D220
	or 2SC3311A(Q,R)	
FL201	: CF1022C	





IC201	: CXP5016-532S	D201,202,204~210,212,214,216~218
IC202	: BA10393	221~223
		: ISS133
		or HSS104
Q202	: 2SA933S(Q,R)	D203
	or 2SA1309A(Q,R)	: RD3.9ES(B2)
		or HZS3.9N(B2)
Q203	: 2SC1740S(Q,R)	D220
	or 2SC3311A(Q,R)	: RD5.1ES(B2)
		or HZS5.1N(B2)
FL201	: CF1022C	



DC voltages are as measured with a high-impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

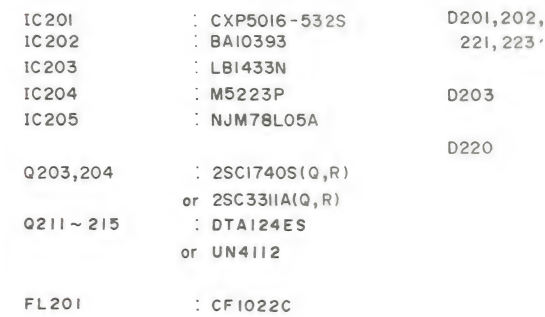
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KT-591S(2/2)

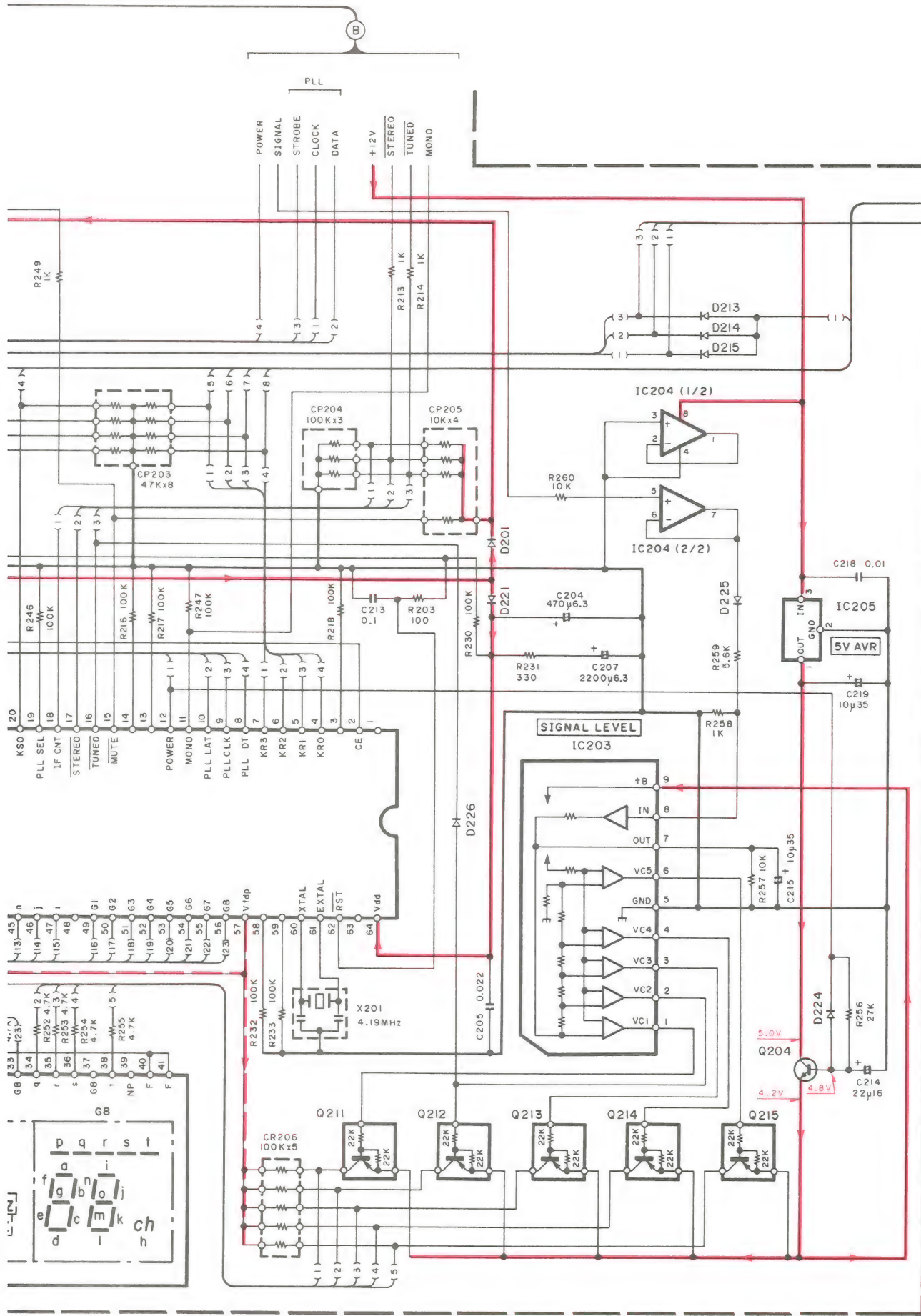
Y07-3420-10



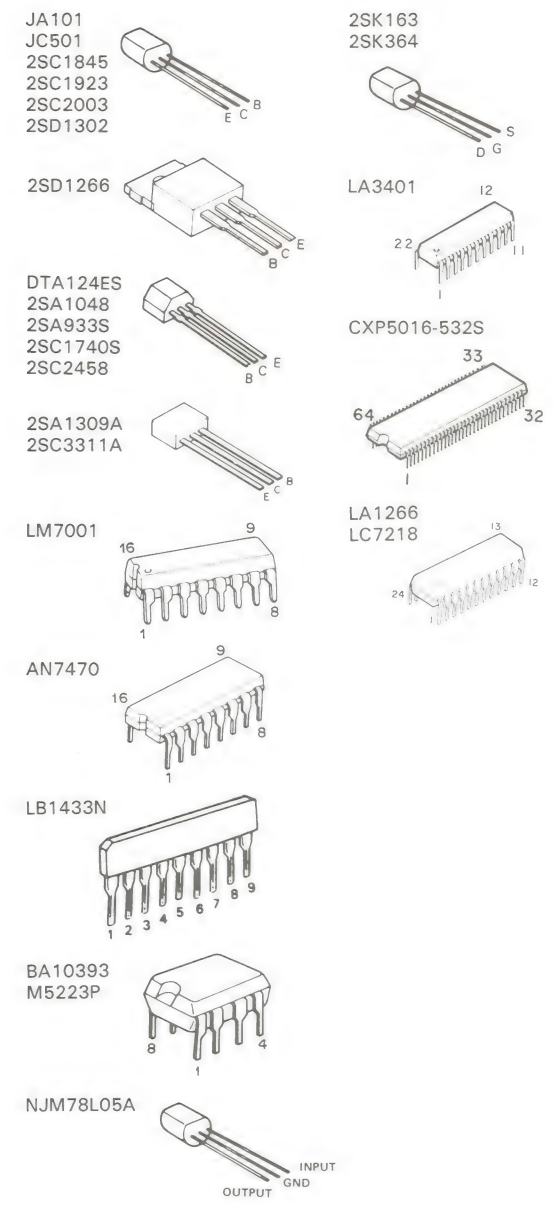








- |            |                  |                                 |                |
|------------|------------------|---------------------------------|----------------|
| IC201      | : CXP5016-532S   | D201, 202, 204 ~ 210, 213 ~ 218 | : ISS133       |
| IC202      | : BA10393        | 221, 223 ~ 226                  | : RD3.9ES(B2)  |
| IC203      | : LB1433N        |                                 | or HZS3.9N(B2) |
| IC204      | : M5223P         | D203                            | : RD5.1ES(B2)  |
| IC205      | : NJM78L05A      | D220                            | or HZS5.1N(B2) |
| Q203, 204  | : 2SC1740S(Q,R)  |                                 |                |
|            | or 2SC3311A(Q,R) |                                 |                |
| Q211 ~ 215 | : DTA124ES       |                                 |                |
|            | or UN4112        |                                 |                |
| FL201      | : CF1022C        |                                 |                |

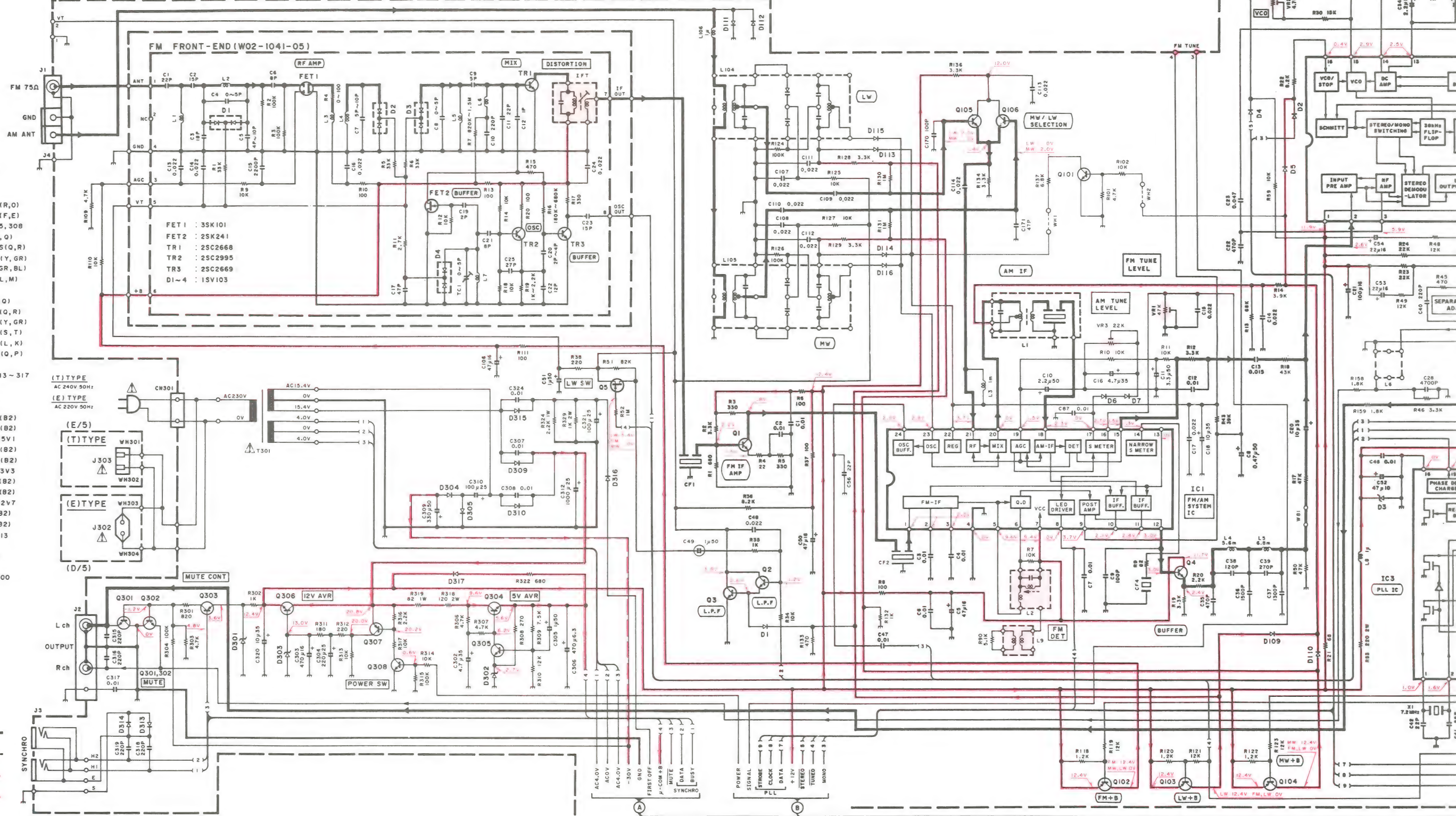


DC voltages are as measured with a high-impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



TUNER UNIT (X05-4040-10)(A/5)(1/2) or (X05-4050-10)(A/5)(1/2)

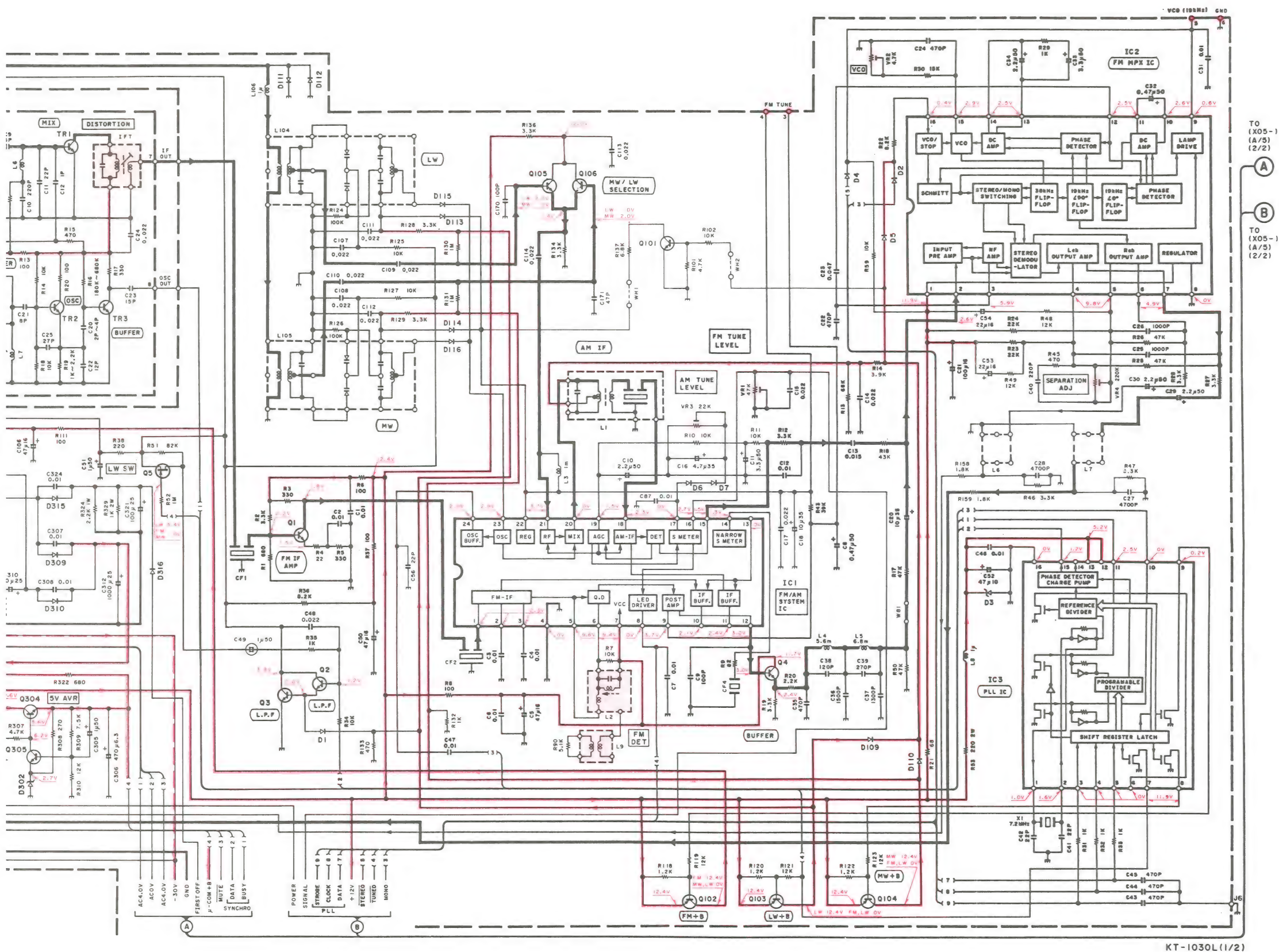


- IC1 : LA1266  
 IC2 : AN7470  
 IC3 : LM7001
- Q1 : 2SC1923(R,O)  
 Q2 : 2SC1845(F,E)  
 Q3,4,101,105,106,305,308 : JC501(P,Q) or 2SC1740S(Q,R) or 2SC2458(Y,GR) or 2SK364(GR,BL) or 2SK163(L,M)
- Q102~104,303,307 : JA101(P,Q) or 2SA933S(Q,R) or 2SA1048(Y,GR)
- Q301,302 : 2SD1302(S,T)  
 Q304 : 2SC2003(L,K)  
 Q306 : 2SD1266(Q,P)

- D1,2,4~7,109~116,313~317 : ISS133 or HSS104 or IN4148
- D3 : RD5.1ES(B2) or HZS5.1N(B2) or BZX55-C5V1 or HZS3.3N(B2) or BZX55-C3V3 or RD2.7ES(B2) or HZS2.7N(B2) or BZX55-C2V7 or RD1.3ES(B2) or HZS1.3N(B2) or BZX55-C13
- D304,305 : ISS131 or HSS104A
- D309,310 : S5688 or ISR139-100 or IN4004


SIGNAL LINE  
 GND LINE  
 +B LINE  
 -B LINE



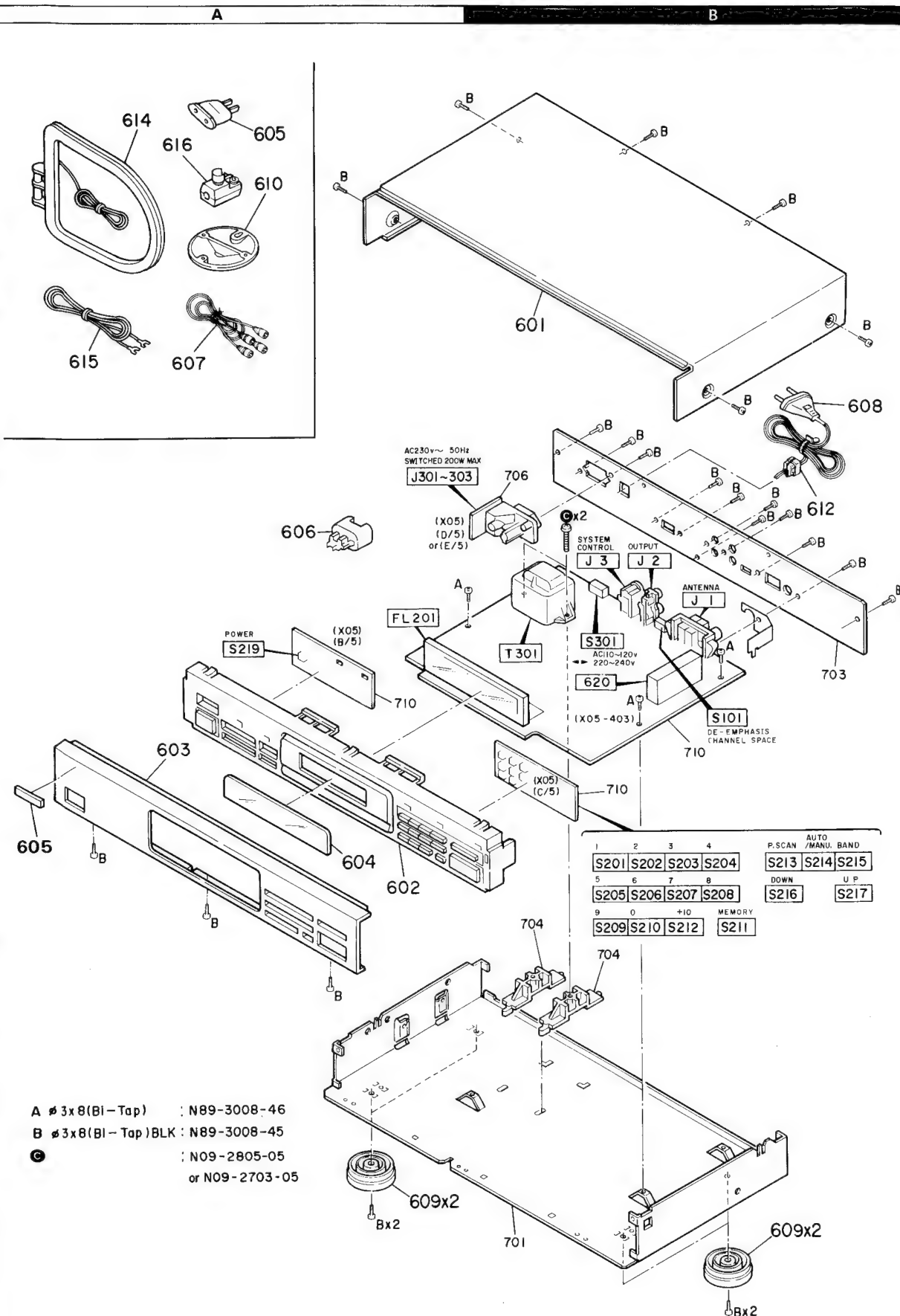


KT-1030L(1/2)

DC voltages are as measured with a high-impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

## EXPLODED VIEW



A  $\varnothing$  3x8(BI-Tap) : N89-3008-46  
 B  $\varnothing$  3x8(BI-Tap) BLK : N89-3008-45  
 C : N09-2805-05  
 or N09-2703-05

Parts with the exploded numbers larger than 700 are not supplied.

## PARTS LIST

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
<b>KT-591 (JAPAN MADE)</b>						
601	1B	*	A01-1939-01	METALLIC CABINET		
602	2A	*	A22-1468-01	SUB PANEL		
603	2A	*	A60-0015-02	PANEL		
604	2A	*	B03-2689-03	DRESSING PLATE		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-23	WARRANTY CARD	X	
-			B46-0121-03	WARRANTY CARD	P	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-		*	B60-0324-00	INSTRUCTION MANUAL(ENGLISH)		
-		*	B60-0325-00	INSTRUCTION MANUAL(FRENCH)	P	
△ 606	2A		E03-0114-05	AC OUTLET	X	
△ 607	1A		E30-0615-05	AUDIO CORD		
△ 608	1B		E30-2594-15	AC POWER CORD	X	
△ 608	1B		E30-2605-05	AC POWER CORD	Y	
△ 608	1B	*	E30-2643-05	AC POWER CORD	KP	
-			H10-3780-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H50-0013-04	ITEM CARTON CASE		
609	3A, 3B		J02-0366-15	FOOT		
△ 610	1A		J19-2815-04	ANTENNA HOLDER		
612	2B		J42-0083-05	POWER CORD BUSHING		
A			N89-3008-46	BINDING HEAD TAPTITE SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C		*	N09-2703-05	TAPTITE SCREW		
614	1A		T90-0173-05	LOOP ANTENNA		
615	1A		T90-0182-15	LEAD WIRE ANTENNA		
<b>KT-591 (SINGAPORE, MALAYSIA MADE)</b>						
601	1B	*	A01-1940-01	METALLIC CABINET		
602	2A	*	A22-1489-01	SUB PANEL		
603	2A	*	A60-0015-02	PANEL		
604	2A		B03-2721-03	DRESSING PLATE		
-			B46-0092-03	WARRANTY CARD		
-		*	B60-0324-00	INSTRUCTION MANUAL(ENGLISH)		
△ 607	1A		E30-0615-05	AUDIO CORD		
608	1B	*	E30-2643-05	AC POWER CORD		
-			H10-3819-02	POLYSTYRENE FOAMED FIXTURE	K	S
-		*	H10-5131-02	POLYSTYRENE FOAMED FIXTURE	K	W
-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H50-0014-04	ITEM CARTON CASE	K	S
-		*	H50-0090-04	ITEM CARTON CASE	K	W
609	3A, 3B		J02-0366-15	FOOT		
△ 610	1A		J19-2815-04	ANTENNA HOLDER		
612	2B		J42-0083-05	POWER CORD BUSHING		
A			N89-3008-46	BINDING HEAD TAPTITE SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		

E: Scandinavia &amp; Europe K: USA

P: Canada

S: SINGAPORE MADE

Y: PX(Far East, Hawaii)

T: England

M: Other Areas

W: MALAYSIA MADE

Y: AAFES(Europe)

X: Australia

△ indicates safety critical components.



## PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
C			N09-2805-05	TAPTITE SCREW		
614	1A		T90-0174-05	LOOP ANTENNA		
615	1A		T90-0182-15	LEAD WIRE ANTENNA		
KT-591S						
601	1B	*	A01-1939-01	METALLIC CABINET		
602	2A	*	A22-1468-01	SUB PANEL		
603	2A	*	A60-0016-02	PANEL		
604	2A	*	B03-2689-03	DRESSING PLATE		
-		*	B60-0324-00	INSTRUCTION MANUAL(ENGLISH)		
-		*	B60-0326-00	INSTRUCTION MANUAL(S,A,C)		
△ 605	1A		E03-0115-05	AC PLUG ADAPTER		
607	1A		E30-0615-05	AUDIO CORD		
△ 608	1B		E30-2592-15	AC POWER CORD		
-			H10-3780-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H50-0089-04	ITEM CARTON CASE		
609	3A, 3B		J02-0366-15	FOOT		
610	1A		J19-2815-04	ANTENNA HOLDER		
△ 612	2B		J42-0083-05	POWER CORD BUSHING		
A			N89-3008-46	BINDING HEAD TAPTITE SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C		*	N09-2703-05	TAPTITE SCREW		
614	1A		T90-0173-05	LOOP ANTENNA		
615	1A		T90-0182-15	LEAD WIRE ANTENNA		
KT-1030L (FRANCE MADE)						
601	1B	*	A01-1931-01	METALLIC CABINET		
602	2A	*	A22-1495-01	SUB PANEL		
603	2A	*	A60-0017-02	PANEL		
604	2A	*	B03-2718-03	DRESSING PLATE		
-			B46-0139-03	WARRANTY CARD		
-		*	B60-0327-00	INSTRUCTION MANUAL(ENGLISH)		
-		*	B60-0328-00	INSTRUCTION MANUAL(F,G,D,I)		
605	2A		B43-0287-04	KENWOOD BADGE		
607	1A		E30-0505-05	AUDIO CORD		
△ 608	1B		E30-2592-15	AC POWER CORD		
-			H10-3781-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H50-0070-04	ITEM CARTON CASE		
609	3A, 3B		J02-1024-05	FOOT		
610	1A		J19-2815-04	ANTENNA HOLDER		
△ 612	2B		J42-0083-05	POWER CORD BUSHING		
A			N89-3008-46	BINDING HEAD TAPTITE SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C		*	N09-2703-05	TAPTITE SCREW		
614	1A		T90-0153-05	LOOP ANTENNA		
615	1A		T90-0176-05	T TYPE ANTENNA		
616	1A		T90-0177-05	ANTENNA ADAPTOR		

E: Scandinavia & Europe K: USA P: Canada  
Y: PX(Far East, Hawaii) T: England M: Other Areas  
Y: AAFES(Europe) X: Australia

△ indicates safety critical components.

# KT-591/591S/1030L

## PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
<b>KT-1030L (SINGAPORE MADE)</b>						
601	1B	*	A01-1940-01	METALLIC CABINET		
602	2A	*	A22-1488-01	SUB PANEL		
603	2A	*	A60-0017-02	PANEL		
604	2A	*	B03-2722-03	DRESSING PLATE		
-			B46-0122-13	WARRANTY CARD	E	
-			B46-0143-13	WARRANTY CARD	T	
-		*	B60-0327-00	INSTRUCTION MANUAL(ENGLISH)		
-		*	B60-0328-00	INSTRUCTION MANUAL(F,G,D,I)	E	
605	2A		B43-0287-04	KENWOOD BADGE		
607	1A		E30-0505-05	AUDIO CORD		
△ 608	1B		E30-2592-15	AC POWER CORD	E	
△ 608	1B		E30-2593-15	AC POWER CORD	T	
-			H10-3819-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H50-0015-04	ITEM CARTON CASE	T	
-		*	H50-0069-04	ITEM CARTON CASE	E	
609	3A, 3B		J02-1024-05	FOOT	TE	
610	1A		J19-2815-04	ANTENNA HOLDER		
△ 612	2B		J42-0083-05	POWER CORD BUSHING		
A			N89-3008-46	BINDING HEAD TAPTITE SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C			N09-2805-05	TAPTITE SCREW		
614	1A		T90-0174-05	LOOP ANTENNA		
615	1A		T90-0175-05	T TYPE ANTENNA	TE	
616	1A		T90-0177-05	ANTENNA ADAPTOR	TE	
<b>KT-591 TUNER UNIT (X05-404X-XX) (0-10: K,P, 2-91: Y, 0-71: X)</b>						
C1 -4			CK45FF1H103Z	CERAMIC 0.010UF Z		
C5			CE04KW1C470M	ELECTRO 47UF 16WV		
C6 ,7			CK45FF1H103Z	CERAMIC 0.010UF Z		
C8			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C9			CC45FSL1H101J	CERAMIC 100PF J		
C10			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C11			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C12			CK45FF1H103Z	CERAMIC 0.010UF Z		
C13			CQ92FM1H153J	MYLAR 0.015UF J		
C14 ,15			CK45FF1H223Z	CERAMIC 0.022UF Z		
C16			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C17			CK45FF1H223Z	CERAMIC 0.022UF Z		
C18			CE04KW1V100M	ELECTRO 10UF 35WV		
C20			CE04KW1V100M	ELECTRO 10UF 35WV		
C21			CE04KW1C101M	ELECTRO 100UF 16WV		
C22			CK45FB1H471K	CERAMIC 470PF K		
C23			CF92FV1H473J	MF 0.047UF J		
C24			CC93FCH1H471J	CERAMIC 470PF J		
C25 ,26			CC45FSL1H151J	CERAMIC 150PF J		
C27 ,28		*	CQ92FM1H123J	MYLAR 0.012UF J	YX	
C27 ,28			CQ92FM1H223J	MYLAR 0.022UF J		
C29 ,30			CE04KW1H010M	ELECTRO 1.0UF 50WV	KP	
C31			CK45FF1H103Z	CERAMIC 0.010UF Z		
C32			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C33			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		

E: Scandinavia & Europe K: USA

P: Canada

Y: PX(Far East, Hawaii)

T: England

M: Other Areas

Y: AAFES(Europe)

X: Australia

△ indicates safety critical components.

## PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
C34 C41 ,42 C43 -45 C46 ,47 C48			CE04KW1H2R2M CC45FCH1H220J CK45FB1H471K CK45FF1H103Z CQ92FM1H223J	ELECTRO 2.2UF 50WV CERAMIC 22PF J CERAMIC 470PF K CERAMIC 0.010UF Z MYLAR 0.022UF J		
C49 C50 C51 C52 C56			CE04KW1H010M CE04KW1C470M CE04KW1H010M CE04KW1A470M CC45FSL1H220J	ELECTRO 1.0UF 50WV ELECTRO 47UF 16WV ELECTRO 1.0UF 50WV ELECTRO 47UF 10WV CERAMIC 22PF J		
C106 C107 C135,136 C203 C204			CE04KW1C470M CK45FF1H223Z CQ92FM1H562J CE04KW1H2R2M CE04KW0J471M	ELECTRO 47UF 16WV CERAMIC 0.022UF Z MYLAR 5600PF J ELECTRO 2.2UF 50WV ELECTRO 470UF 6.3WV	Y	
C205 C207 C208 C213 C235			CK45FF1H223Z CE04KW0J222M C90-1332-05 CF92FV1H104J CK45FF1H223Z	CERAMIC 0.022UF Z ELECTRO 2200UF 6.3WV NP-ELEC 10UF 25WV MF 0.10UF J CERAMIC 0.022UF Z		
C302 C303 C304 C305 C306			CE04KW1V4R7M CE04DW1C471M CE04KW1E221M CE04KW1H010M CE04KW0J471M	ELECTRO 4.7UF 35WV ELECTRO 470UF 16WV ELECTRO 220UF 25WV ELECTRO 1.0UF 50WV ELECTRO 470UF 6.3WV		
C307,308 C309 C310 C312 C317			CK45FF1H103Z CE04KW1H331M CE04KW1E101M CE04KW1E102M CK45FF1H103Z	CERAMIC 0.010UF Z ELECTRO 330UF 50WV ELECTRO 100UF 25WV ELECTRO 1000UF 25WV CERAMIC 0.010UF Z		
C318,319 C320 C321 C324			C91-0749-05 CE04KW1V100M CE04KW1E101M CK45FF1H103Z	CERAMIC 220PF K ELECTRO 10UF 35WV ELECTRO 100UF 25WV CERAMIC 0.010UF Z		
J1 J2 J3 J301	2B 2B 2B 2A	*	E20-0476-05 E13-0235-05 E11-0188-05 E03-0119-05	LOCK TERMINAL BOARD (ANTENNA) PHONE JACK (OUTPUT) MINIATURE PHONE JACK(S.CONTROL AC OUTLET	KPY	
CF1 ,2 CF4 L1 L2 L8			L72-0531-05 L72-0096-05 L30-0488-05 L30-0439-25 L40-1091-17	CERAMIC FILTER CERAMIC FILTER AM IFT FM IFT SMALL FIXED INDUCTOR(1uH)		
L104 L106 L201 T301 T301	2B 2B	* *	L39-0189-05 L40-1091-17 L40-1091-17 L07-0247-05 L07-0248-05	COMBINATION COIL SMALL FIXED INDUCTOR(1uH) SMALL FIXED INDUCTOR(1uH) POWER TRANSFORMER POWER TRANSFORMER	KP Y	
T301 X1 X201 X201	2B	*	L07-0249-05 L77-1122-05 L78-0209-05 L78-0218-05	POWER TRANSFORMER CRYSTAL RESONATOR(7.2MHz) RESONATOR (4.194MHz) RESONATOR (4.194MHz)	X	
CP201 CP202			R90-0832-05 R90-0487-05	MULTI-COMP 4.7KX3 J 1/6W MULTI-COMP 47KX4 J 1/6W		

E: Scandinavia &amp; Europe K: USA P: Canada

Y: PX(Far East, Hawaii) T: England M: Other Areas

Y: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

## PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
CP203 CP204 CP205 R53 R318			R90-0804-05 R90-0850-05 R90-0809-05 RS14DB3D221J RS14DB3D121J	MULTI-COMP 47KX8 J 1/4W MULTIPLE RESISTOR 100KX3 MULTIPLE RESISTOR 10KX4 FL-PROOF RS 220 J 2W FL-PROOF RS 120 J 2W		
R319 R321 R323 R324 R329			RS14DB3A820J R92-0173-05 RS14DB3A221J RS14DB3A222J RS14DB3D102J	FL-PROOF RS 82 J 1W RC 2.2M M 1/2W FL-PROOF RS 220 J 1W FL-PROOF RS 2.2K J 1W FL-PROOF RS 1.0K J 2W	KP	
VR1 VR2 VR3		*	R12-3688-05 R12-1619-05 R12-3686-05	TRIMMING POT(47K)FM TUNE LEVEL TRIMMING POT(4.7K)VC0 TRIMMING POT(22K)AM TUNE LEVEL		
S101 S201-217 S219 S301	2B 2B 2A 2B		S31-2094-05 S40-1064-05 S40-1064-05 S31-2131-05	SLIDE SWITCH(DE-EM.,CH SPACE) PUSH SWITCH PUSH SWITCH (POWER) SLIDE SWITCH(POWER TYPE)	Y  Y	
D2 D2 D3 D3 D4 ,5			HSS104 1SS133 HZS5.1N(B2) RD5.1ES(B2) HSS104	DIODE DIODE ZENER DIODE ZENER DIODE DIODE		
D4 ,5 D111,112 D111,112 D201,202 D201,202			1SS133 HSS104 1SS133 HSS104 1SS133	DIODE DIODE DIODE DIODE DIODE		
D203 D203 D204-210 D204-210 D213			HZS3.9N(B2) RD3.9ES(B2) HSS104 1SS133 HSS104	ZENER DIODE ZENER DIODE DIODE DIODE DIODE		X
D213 D214 D214 D216-218 D216-218			1SS133 HSS104 1SS133 HSS104 1SS133	DIODE DIODE DIODE DIODE DIODE		X YX YX
D220 D220 D221 D221 D222			HZS5.1N(B2) RD5.1ES(B2) HSS104 1SS133 HSS104	ZENER DIODE ZENER DIODE DIODE DIODE DIODE		Y
D222 D223 D223			1SS133 HSS104 1SS133	DIODE DIODE DIODE		Y
D301 D301			HZS3.3N(B2) RD3.3ES(B2)	ZENER DIODE ZENER DIODE		
D302 D302 D303 D303 D304,305			HZS2.7N(B2) RD2.7ES(B2) HZS13N(B2) RD13ES(B2) HSS104A	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE		
D304,305 D309,310			1SS131 S5688B	DIODE DIODE		

E: Scandinavia &amp; Europe K: USA

P: Canada

Y: PX(Far East, Hawaii)

T: England

M: Other Areas

Y: AAFES(Europe)

X: Australia

⚠ indicates safety critical components.

## PARTS LIST

× New Parts


Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
D309,310 D313-317 D313-317 FL201 IC1	2A	*	1SR139-100 HSS104 1SS133 CF1022C LA1266	DIODE DIODE DIODE FLUORESCENT INDICATOR TUBE IC(AM/FM IF)	Y Y	
IC2 IC3 IC201 IC202 Q1			AN7470 LM7001 CXP5016-532S BA10393 2SC1923(R,Θ)	IC(FM MPX) IC(PLL FREQUENCY SYNTHESIZER) IC(4BIT MICROCOMPUTER) IC(DUAL COMPALATOR) TRANSISTOR		
Q2 Q3 Q3 Q102 Q102			2SC1845(F,E) 2SC1740S(Q,R) 2SC3311A(Q,R) 2SA1309A(Q,R) 2SA933S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q104 Q104 Q202 Q202 Q203			2SA1309A(Q,R) 2SA933S(Q,R) 2SA1309A(Q,R) 2SA933S(Q,R) 2SC1740S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q203 Q301,302 Q303 Q303 Q304			2SC3311A(Q,R) 2SD1302(S,T) 2SA1309A(Q,R) 2SA933S(Q,R) 2SC2003(L,K)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q305 Q305 Q306 Q307 Q307			2SC1740S(Q,R) 2SC3311A(Q,R) 2SD1266(Q,P) 2SA1309A(Q,R) 2SA933S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q308 Q308			2SC1740S(Q,R) 2SC3311A(Q,R)	TRANSISTOR TRANSISTOR		
620	2B		W02-1042-05	FM FRONT-END ASSY		
KT-591S TUNER UNIT (X05-4060-20)						
C1 -4 C5 C6 ,7 C8 C9			CK45FF1H103Z CE04KW1C470M CK45FF1H103Z CE04KW1HR47M CC45FSL1H101J	CERAMIC 0.010UF Z ELECTRO 47UF 16WV CERAMIC 0.010UF Z ELECTRO 0.47UF 50WV CERAMIC 100PF J		
C10 C11 C12 C13 C14 ,15			CE04KW1H2R2M CE04KW1H3R3M CK45FF1H223Z CQ92FM1H223J CK45FF1H223Z	ELECTRO 2.2UF 50WV ELECTRO 3.3UF 50WV CERAMIC 0.022UF Z MYLAR 0.022UF J CERAMIC 0.022UF Z		
C16 C17 C18 C20 C21			CE04KW1V4R7M CK45FF1H223Z CE04KW1C101M CE04KW1V100M CE04KW1C101M	ELECTRO 4.7UF 35WV CERAMIC 0.022UF Z ELECTRO 100UF 16WV ELECTRO 10UF 35WV ELECTRO 100UF 16WV		
C27 ,28 C29 ,30 C41 C42 C43 -45			* CQ92FM1H133J CE04KW1H2R2M CC45FCH1H220J CC45FCH1H270J CK45FB1H471K	MYLAR 0.013UF J ELECTRO 2.2UF 50WV CERAMIC 22PF J CERAMIC 27PF J CERAMIC 470PF K		

E: Scandinavia & Europe K: USA P: Canada  
Y: PX(Far East, Hawaii) T: England M: Other Areas  
Y: AAFES(Europe) X: Australia

 indicates safety critical components.

## PARTS LIST

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C46			CK45FF1H103Z	CERAMIC 0.010UF Z		
C47			C91-0769-05	CERAMIC 0.01UF K		
C49			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C50			CE04KW1C470M	ELECTR0 47UF 16WV		
C51			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C52			CE04KW1A470M	ELECTR0 47UF 10WV		
C56			CC45FSL1H220J	CERAMIC 22PF J		
C62 -64			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C65			CE04KW1HR22M	ELECTR0 0.22UF 50WV		
C66			CE04KW1V100M	ELECTR0 10UF 35WV		
C67 ,68			CC45FSL1H101J	CERAMIC 100PF J		
C69			CE04KW1V100M	ELECTR0 10UF 35WV		
C70			CK45FB1H561K	CERAMIC 560PF K		
C71			CQ92FM1H103J	MYLAR 0.010UF J		
C81			CQ92FM1H223J	MYLAR 0.022UF J		
C82			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C83			CK45FB1H471K	CERAMIC 470PF K		
C85			CC45FSL1H101J	CERAMIC 100PF J		
C86			CK45FF1H223Z	CERAMIC 0.022UF Z		
C106			CE04KW1C470M	ELECTR0 47UF 16WV		
C108			CK45FF1H223Z	CERAMIC 0.022UF Z		
C110			C91-0085-05	CERAMIC 0.022UF N		
C112,113			CK45FF1H223Z	CERAMIC 0.022UF Z		
C114			C91-0085-05	CERAMIC 0.022UF N		
C135,136			CQ92FM1H682J	MYLAR 6800PF J		
C152,153			CK45FF1H223Z	CERAMIC 0.022UF Z		
C154,155			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C156-159			CK45FF1H223Z	CERAMIC 0.022UF Z		
C160,161			C91-0085-05	CERAMIC 0.022UF N		
C162,163			CK45FF1H223Z	CERAMIC 0.022UF Z		
C164		*	CC93FCH1H272J	CERAMIC 2700PF J		
C166			CC45FCH1H120J	CERAMIC 12PF J		
C167		*	C91-1431-05	CERAMIC 0.0068UF J		
C168			CK45FF1H223Z	CERAMIC 0.022UF Z		
C169			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C171			C91-0745-05	CERAMIC 100PF K		
C203			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		
C204			CE04KW0J471M	ELECTR0 470UF 6.3WV		
C205			CK45FF1H223Z	CERAMIC 0.022UF Z		
C207			CE04KW0J222M	ELECTR0 2200UF 6.3WV		
C208			C90-1332-05	NP-ELEC 10UF 25WV		
C213			CF92FV1H104J	MF 0.10UF J		
C235			CK45FF1H223Z	CERAMIC 0.022UF Z		
C302			CE04KW1V4R7M	ELECTR0 4.7UF 35WV		
C303			CE04DW1C471M	ELECTR0 470UF 16WV		
C304			CE04KW1E221M	ELECTR0 220UF 25WV		
C305			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C306			CE04KW0J471M	ELECTR0 470UF 6.3WV		
C307,308			CK45FF1H103Z	CERAMIC 0.010UF Z		
C309			CE04KW1H331M	ELECTR0 330UF 50WV		
C310			CE04KW1E101M	ELECTR0 100UF 25WV		
C312			CE04KW1E102M	ELECTR0 1000UF 25WV		
C317			CK45FF1H103Z	CERAMIC 0.010UF Z		
C318,319			CC45FSL1H221J	CERAMIC 220PF J		
C320			CE04KW1V100M	ELECTR0 10UF 35WV		

E: Scandinavia &amp; Europe K: USA

P: Canada

Y: PX(Far East, Hawaii)

T: England

M: Other Areas

Y: AAFES(Europe)

X: Australia

 indicates safety critical components.



## PARTS LIST

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C321 C324 TC101			CE04KW1E101M CK45FF1H103Z C05-0216-05	ELECTRO 100UF 25WV CERAMIC 0.010UF Z CERAMIC TRIMMER CAPACITOR(10PF		
J1 J2 J3 J302	2B 2B 2B 2A		E20-0476-05 E13-0235-05 E11-0188-05 E03-0108-05	LOCK TERMINAL BOARD (ANTENNA) PHONE JACK (OUTPUT) MINIATURE PHONE JACK(S.CONTROL AC OUTLET		
CF1 ,2 L1 L2 L3 L8			L72-0531-05 L30-0467-05 L30-0439-25 L40-1021-14 L40-1091-17	CERAMIC FILTER AM IFT FM IFT SMALL FIXED INDUCTOR(1.0mH,K) SMALL FIXED INDUCTOR(1.0uH)		
L105 L106 L107 L108 L109		*	L39-0192-05 L40-1091-17 L39-0199-05 L31-0608-05 L32-0528-05	COMBINATION COIL SMALL FIXED INDUCTOR(1.0uH) COMBINATION COIL SW-RF COIL SW OSCILLATING COIL		
L110 L201 T301 X1 X2	2B	*	L40-1021-14 L40-1091-17 L07-0248-05 L77-1122-05 L78-0208-05	SMALL FIXED INDUCTOR(1.0mH,K) SMALL FIXED INDUCTOR(1.0uH) POWER TRANSFORMER CRYSTAL RESONATOR(7.2MHZ) RESONATOR (456KHZ)		
X201 X201			L78-0209-05 L78-0218-05	RESONATOR (4.194MHZ) RESONATOR (4.194MHZ)		
CP201 CP202 CP203 CP204 CP205			R90-0832-05 R90-0487-05 R90-0804-05 R90-0850-05 R90-0809-05	MULTI-COMP 4.7KX3 J 1/6W MULTI-COMP 47KX4 J 1/6W MULTI-COMP 47KX8 J 1/4W MULTIPLE RESISTOR 100KX3 MULTIPLE RESISTOR 10KX4		
R53 R318 R319 R323 R324			RS14DB3D221J RS14DB3D121J RS14DB3A820J RS14DB3A221J RS14DB3A222J	FL-PROOF RS 220 J 2W FL-PROOF RS 120 J 2W FL-PROOF RS 82 J 1W FL-PROOF RS 220 J 1W FL-PROOF RS 2.2K J 1W		
R329 VR1 VR3 VR5		*	RS14DB3D102J R12-3688-05 R12-3686-05 R12-6663-05	FL-PROOF RS 1.0K J 2W TRIMMING POT(47K)FM TUNE LEVEL TRIMMING POT(22K)AM TUNE LEVEL TRIMMING POT(330K)SEPARATION		
S101 S201-217 S219 S301	2B 2B 2A 2B		S31-2094-05 S40-1064-05 S40-1064-05 S31-2131-05	SLIDE SWITCH(DE-EM.,CH SPACE) PUSH SWITCH PUSH SWITCH (POWER) SLIDE SWITCH(POWER TYPE)		
D3 D3 D11 D11 D109-112			HZS5.1N(B2) RD5.1ES(B2) HSS104 1SS133 HSS104	ZENER DIODE ZENER DIODE DIODE DIODE DIODE		
D109-112 D114 D114 D116 D116			1SS133 HSS104 1SS133 HSS104 1SS133	DIODE DIODE DIODE DIODE DIODE		
D123-130			HSS104	DIODE		

E: Scandinavia &amp; Europe K: USA

P: Canada

Y: PX(Far East, Hawaii) T: England

M: Other Areas

Y: AAFES(Europe)

X: Australia

⚠ indicates safety critical components.

## PARTS LIST

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
D123-130 D131 D132-135 D132-135 D201, 202			1SS133 KV1260 HSS104 1SS133 HSS104	DIODE VARIABLE CAPACITANCE DIODE DIODE DIODE DIODE		
D201, 202 D203 D203 D204-210 D204-210			1SS133 HZS3.9N(B2) RD3.9ES(B2) HSS104 1SS133	DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
D212 D212 D214 D214 D216-218			HSS104 1SS133 HSS104 1SS133 HSS104	DIODE DIODE DIODE DIODE DIODE		
D216-218 D220 D220 D221-223 D221-223			1SS133 HZS5.1N(B2) RD5.1ES(B2) HSS104 1SS133	DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
D301 D301 D302 D302 D303			HZS3.3N(B2) RD3.3ES(B2) HZS2.7N(B2) RD2.7ES(B2) HZS13N(B2)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D303 D304, 305 D304, 305 D309, 310 D309, 310			RD13ES(B2) HSS104A 1SS131 SS6888 1SR139-100	ZENER DIODE DIODE DIODE DIODE DIODE		
D313-317 D313-317 FL201 IC1 IC3	2A	*	HSS104 1SS133 CF1022C LA1266 LC7218	DIODE DIODE FLUORESCENT INDICATOR TUBE IC(AM/FM IF) IC(PLL SYNTHESIZER)		
IC4 IC201 IC202 Q1 Q2		*	LA3401 CXP5016-532S BA10393 2SC1923(R, O) 2SC1845(F, E)	IC(FM MPX) IC(4BIT MICROCOMPUTER) IC(DUAL COMPALATOR) TRANSISTOR TRANSISTOR		
Q3 Q3 Q7 Q7 Q8			2SC1740S(Q, R) 2SC3311A(Q, R) 2SC1740S(Q, R) 2SC3311A(Q, R) 2SC1845(F, E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q9 Q9 Q101 Q101 Q102-104		*	2SC1740S(Q, R) 2SC3311A(Q, R) 2SC1740S(Q, R) 2SC3311A(Q, R) 2SA1309A(Q, R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q102-104 Q105, 106 Q105, 106 Q110 Q110		*	2SA933S(Q, R) 2SC1740S(Q, R) 2SC3311A(Q, R) 2SA1309A(Q, R) 2SA933S(Q, R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

E: Scandinavia &amp; Europe K: USA

P: Canada

Y: PX(Far East, Hawaii)

T: England

M: Other Areas

Y: AAFES(Europe)

X: Australia

⚠ indicates safety critical components.

## PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
Q202 Q202 Q203 Q203 Q301, 302		*	2SA1309A(Q,R) 2SA933S(Q,R) 2SC1740S(Q,R) 2SC3311A(Q,R) 2SD1302(S,T)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q303 Q303 Q304 Q305 Q305		*	2SA1309A(Q,R) 2SA933S(Q,R) 2SC2003(L,K) 2SC1740S(Q,R) 2SC3311A(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q306 Q307 Q307 Q308 Q308		*	2SD1266(Q,P) 2SA1309A(Q,R) 2SA933S(Q,R) 2SC1740S(Q,R) 2SC3311A(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
620	2B		W02-1042-05	FM FRONT-END ASSY		
KT-1030L TUNER UNIT (X05-4050-51: T, X05-4052-71: E, X05-4042-71: E (FRANCE MADE))						
C1 -4 C5 C6 ,7 C8 C9			CK45FF1H103Z CE04KW1C470M CK45FF1H103Z CE04KW1HR47M CC45FSL1H101J	CERAMIC 0.010UF Z ELECTRO 47UF 16WV CERAMIC 0.010UF Z ELECTRO 0.47UF 50WV CERAMIC 100PF J		
C10 C11 C12 C13 C14 ,15			CE04KW1H2R2M CE04KW1H3R3M CK45FF1H103Z CQ92FM1H153J CK45FF1H223Z	ELECTRO 2.2UF 50WV ELECTRO 3.3UF 50WV CERAMIC 0.010UF Z MYLAR 0.015UF J CERAMIC 0.022UF Z		
C16 C17 C18 C20 C21			CE04KW1V4R7M CK45FF1H223Z CE04KW1V100M CE04KW1V100M CE04KW1C101M	ELECTRO 4.7UF 35WV CERAMIC 0.022UF Z ELECTRO 10UF 35WV ELECTRO 10UF 35WV ELECTRO 100UF 16WV		
C22 C23 C24 C25 ,26 C27 ,28			CK45FB1H471K CF92FV1H473J CC93FCH1H471J CK45FB1H102K CQ92FM1H472J	CERAMIC 470PF K MF 0.047UF J CERAMIC 470PF J CERAMIC 1000PF K MYLAR 4700PF J		
C29 ,30 C31 C32 C33 C34			CE04KW1H2R2M CK45FF1H103Z CE04KW1HR47M CE04KW1H3R3M CE04KW1H2R2M	ELECTRO 2.2UF 50WV CERAMIC 0.010UF Z ELECTRO 0.47UF 50WV ELECTRO 3.3UF 50WV ELECTRO 2.2UF 50WV		
C35 C36 C37 C38 C39		*	CK45FB1H471K CQ92FM1H152J MYLAR 1300PF J CC45FSL1H121J CC45FSL1H271J	CERAMIC 470PF K MYLAR 1500PF J MYLAR 1300PF J CERAMIC 120PF J CERAMIC 270PF J		
C40 C41 ,42 C43 -45 C46 ,47 C48			CC45FSL1H221J CC45FCH1H220J CK45FB1H471K CK45FF1H103Z CQ92FM1H223J	CERAMIC 220PF J CERAMIC 22PF J CERAMIC 470PF K CERAMIC 0.010UF Z MYLAR 0.022UF J		
C49 C50			C90-1349-05 CE04KW1C470M	NP-ELEC 1UF 50WV ELECTRO 47UF 16WV		

E: Scandinavia & Europe K: USA P: Canada  
Y: PX(Far East, Hawaii) T: England M: Other Areas  
V: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

## PARTS LIST

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C51			CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C52			CE04KW1A470M	ELECTRØ 47UF 10WV		
C53 ,54			CE04KW1C220M	ELECTRØ 22UF 16WV		
C56			CC45FSL1H220J	CERAMIC 22PF J		
C87			CK45FF1H103Z	CERAMIC 0.010UF Z		
C106			CE04KW1C470M	ELECTRØ 47UF 16WV		
C107,108			CK45FF1H223Z	CERAMIC 0.022UF Z		
C109,110			C91-0085-05	CERAMIC 0.022UF N		
C111-113			CK45FF1H223Z	CERAMIC 0.022UF Z		
C114			C91-0085-05	CERAMIC 0.022UF N		
C170			C91-0745-05	CERAMIC 100PF K		
C171			C91-0737-05	CERAMIC 47PF J		
C203			CE04KW1H2R2M	ELECTRØ 2.2UF 50WV		
C204			CE04KW0J471M	ELECTRØ 470UF 6.3WV		
C205			CK45FF1H223Z	CERAMIC 0.022UF Z		
C207			CE04KW0J222M	ELECTRØ 2200UF 6.3WV		
C208			C90-1332-05	NP-ELEC 10UF 25WV		
C213			CF92FV1H104J	MF 0.10UF J		
C214			CE04KW1C220M	ELECTRØ 22UF 16WV		
C215			CE04KW1V100M	ELECTRØ 10UF 35WV		
C218			CK45FF1H103Z	CERAMIC 0.010UF Z		
C219			CE04KW1V100M	ELECTRØ 10UF 35WV		
C235			CK45FF1H223Z	CERAMIC 0.022UF Z		
C302			CE04KW1V4R7M	ELECTRØ 4.7UF 35WV		
C303			CE04DW1C471M	ELECTRØ 470UF 16WV		
C304			CE04KW1E221M	ELECTRØ 220UF 25WV		
C305			CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C306			CE04KW0J471M	ELECTRØ 470UF 6.3WV		
C307,308			CK45FF1H103Z	CERAMIC 0.010UF Z		
C309			CE04KW1H331M	ELECTRØ 330UF 50WV		
C310			CE04KW1E101M	ELECTRØ 100UF 25WV		
C312			CE04KW1E102M	ELECTRØ 1000UF 25WV		
C315,316			C91-0749-05	CERAMIC 220PF K		
C317			CK45FF1H103Z	CERAMIC 0.010UF Z		
C318,319			C91-0749-05	CERAMIC 220PF K		
C320			CE04KW1V100M	ELECTRØ 10UF 35WV		
C321			CE04KW1E101M	ELECTRØ 100UF 25WV		
C324			CK45FF1H103Z	CERAMIC 0.010UF Z		
J1	2B		E20-0321-05	LOCK TERMINAL BOARD (ANTENNA)		
J2	2B		E13-0235-05	PHONE JACK (OUTPUT)		
J3	2B		E11-0188-05	MINIATURE PHONE JACK(S.CONTROL)		
△ J302	2A		E03-0108-05	AC OUTLET	E	
△ J303	2A		E03-0109-05	AC OUTLET	T	
CF1 ,2			L72-0536-05	CERAMIC FILTER		
CF4			L72-0096-05	CERAMIC FILTER		
L1			L30-0488-05	AM IFT		
L2			L30-0484-05	FM IFT		
L3			L40-1021-14	SMALL FIXED INDUCTOR(1.0mH,K)		
L4		*	L40-5625-20	SMALL FIXED INDUCTOR(5.6mH,J)		
L4		*	L40-5625-29	SMALL FIXED INDUCTOR(5.6mH,J)		
L5			L40-6825-20	SMALL FIXED INDUCTOR(6.8mH,J)		
L5			L40-6825-29	SMALL FIXED INDUCTOR(6.8mH,J)		
L6 ,7			L79-0790-05	LC FILTER		
L8			L40-1091-17	SMALL FIXED INDUCTOR(1uH)		

E: Scandinavia &amp; Europe K: USA

P: Canada

Y: PX(Far East, Hawaii)

T: England

M: Other Areas

Y: AAFES(Europe)

X: Australia

△ indicates safety critical components.

## PARTS LIST

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部 品 番 号	Description 部 品 名 / 規 格	Desti- nation 仕 向	Re- marks 備考
L9 L104 L105 L106 L201			L30-0485-05 L39-0195-05 L39-0192-05 L40-1091-17 L40-1091-17	FM IFT COMBINATION COIL COMBINATION COIL SMALL FIXED INDUCTOR(1uH) SMALL FIXED INDUCTOR(1uH)		
△ T301 X1 X201 X201	2B	*	L07-0249-05 L77-1122-05 L78-0209-05 L78-0218-05	POWER TRANSFORMER CRYSTAL RESONATOR(7.2MHZ) RESONATOR (4.194MHZ) RESONATOR (4.194MHZ)		
CP201 CP202 CP203 CP204 CP205			R90-0832-05 R90-0487-05 R90-0804-05 R90-0850-05 R90-0809-05	MULTI-COMP 4.7KX3 J 1/6W MULTI-COMP 47KX4 J 1/6W MULTI-COMP 47KX8 J 1/4W MULTIPLE RESISTOR 100KX3 MULTIPLE RESISTOR 10KX4		
CP206 R53 R318 R319 R323			R90-0855-05 RS14KB3D221J RS14KB3D121J RS14KB3A820J RS14KB3A221J	MULTI-COMP 100KX5 J FL-PROOF RS 220 J 2W FL-PROOF RS 120 J 2W FL-PROOF RS 82 J 1W FL-PROOF RS 220 J 1W		
R324 R329 VR1 VR2 VR3			RS14KB3A222J RS14KB3D102J R12-3688-05 R12-1619-05 R12-3686-05	FL-PROOF RS 2.2K J 1W FL-PROOF RS 1.0K J 2W TRIMMING POT(47K)FM TUNE LEVEL TRIMMING POT(4.7K)VC0 TRIMMING POT(22K)AM TUNE LEVEL		
VR4		*	R12-5652-05	TRIMMING POT(220K)SEPARATION		
S201-217 S219	2B 2A		S40-1064-05 S40-1064-05	PUSH SWITCH PUSH SWITCH (POWER)		
D1 ,2 D1 ,2 D1 ,2 D3 D3			HSS104 1N4148 1SS133 BZX55-C5V1 HZS5.1N(B2)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		F F
D3 D4 -7 D4 -7 D4 -7 D109-116			RD5.1ES(B2) HSS104 1N4148 1SS133 HSS104	ZENER DIODE DIODE DIODE DIODE DIODE		F
D109-116 D109-116 D201,202 D201,202 D201,202			1N4148 1SS133 HSS104 1N4148 1SS133	DIODE DIODE DIODE DIODE DIODE		F F F
D203 D203 D203 D204-210 D204-210			BZX55-C3V9 HZS3.9N(B2) RD3.9ES(B2) HSS104 1N4148	ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE		F F
D204-210 D213-218 D213-218 D213-218 D220			1SS133 HSS104 1N4148 1SS133 BZX55-C5V1	DIODE DIODE DIODE DIODE ZENER DIODE		F F
D220			HZS5.1N(B2)	ZENER DIODE		

E: Scandinavia & Europe K: USA P: Canada  
Y: PX(Far East, Hawaii) T: England M: Other Areas  
Y: AAFES(Europe) X: Australia

F: FRANCE MADE

△ indicates safety critical components.

## PARTS LIST

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.


Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
D220 D221 D221 D221 D223-226			RD5.1ES(B2) HSS104 1N4148 1SS133 HSS104	ZENER DIODE DIODE DIODE DIODE DIODE		F
D223-226 D223-226 D301 D301 D301			1N4148 1SS133 BZX55-C3V3 HZS3.3N(B2) RD3.3ES(B2)	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE		F F F
D302 D302 D302 D303 D303		*	BZX55-C2V7 HZS2.7N(B2) RD2.7ES(B2) BZX55-C13 HZS13N(B2)	ZENER DIODE ZENER DIODE ZENER DIODE DIODE ZENER DIODE		F F F
D303 D304,305 D304,305 D309,310 D309,310			RD13ES(B2) HSS104A 1SS131 S5688B 1N4004	ZENER DIODE DIODE DIODE DIODE DIODE		F
D309,310 D313-317 D313-317 D313-317 FL201	2A	*	1SR139-100 HSS104 1N4148 1SS133 CF1022C	DIODE DIODE DIODE DIODE FLUORESCENT INDICATOR TUBE		F
IC1 IC2 IC3 IC201 IC202		*	LA1266 AN7470 LM7001 CXP5016-532S BA10393	IC(AM/FM IF) IC(FM MPX) IC(PLL FREQUENCY SYNTHESIZER) IC(4BIT MICROCOMPUTER) IC(DUAL COMPALATOR)		
IC203 IC204 IC205 Q1 Q2			LB1433N M5223P NJM78L05A 2SC1923(R,Ø) 2SC1845(F,E)	IC(LEVEL METER DRIVER) IC(OP AMP X2) IC(VOLTAGE REGULATOR/ +5V) TRANSISTOR TRANSISTOR		F
Q3 ,4 Q3 ,4 Q3 ,4 Q5 Q5			JC501(P,Q) 2SC1740S(Q,R) 2SC2458(Y,GR) 2SK163(L,M) 2SK364(GR,BL)	TRANSISTOR TRANSISTOR TRANSISTOR FET FET		F
Q101 Q101 Q101 Q102-104 Q102-104			JC501(P,Q) 2SC1740S(Q,R) 2SC2458(Y,GR) JA101(P,Q) 2SA1048(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		F F F
Q102-104 Q105,106 Q105,106 Q105,106 Q203,204			2SA933S(Q,R) JC501(P,Q) 2SC1740S(Q,R) 2SC2458(Y,GR) JC501(P,Q)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		F F F
Q203,204 Q203,204 Q211-215 Q211-215 Q211-215		*	2SC1740S(Q,R) 2SC2458(Y,GR) DTA124ES RN2203 UN4112	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR		F

E: Scandinavia &amp; Europe K: USA P: Canada

F: FRANCE MADE

Y: PX(Far East, Hawaii) T: England M: Other Areas

Y: AAFES(Europe) X: Australia

 indicates safety critical components.

## PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
Q301, 302 Q303 Q303 Q303 Q304			2SD1302(S,T) JA101(P,Q) 2SA1048(Y,GR) 2SA933S(Q,R) 2SC2003(L,K)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		F
Q305 Q305 Q305 Q306 Q307			JC501(P,Q) 2SC1740S(Q,R) 2SC2458(Y,GR) 2SD1266(Q,P) JA101(P,Q)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		F
Q307 Q307 Q308 Q308 Q308			2SA1048(Y,GR) 2SA933S(Q,R) JC501(P,Q) 2SC1740S(Q,R) 2SC2458(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		F
620	2B		W02-1041-05	FM FRONT-END ASSY		

E: Scandinavia &amp; Europe K: USA

P: Canada

F: FRANCE MADE

Y: PX(Far East, Hawaii)

T: England

M: Other Areas

Y: AAFES(Europe)

X: Australia

⚠ indicates safety critical components.



# KT-591/591S/1030L

## SPECIFICATIONS

### KT-591/591S

#### FM tuner section

Tuning frequency range	87.5 MHz-108 MHz
Usable sensitivity (MONO)	0.95 $\mu$ V/10.8 dBf
Total harmonic distortion (at 1 kHz 65 dBf input)	
MONO	0.4%
STEREO	0.5%
Signal to Noise ratio (at 1 kHz, 65 dBf input)	
MONO	78 dB
STEREO	73 dB
Stereo separation	
1 kHz	40 dB
Alternate channel selectivity ( $\pm 400$ kHz)	50 dB
Frequency response	
(30 Hz-15 kHz)	+0.5 dB, -2 dB
Output level/Impedance	
(at 1 kHz, 75 kHz dev.)	0.6 V/3.3 k $\Omega$

#### AM tuner section

Tuning frequency range	
9 kHz step	531 kHz-1,602 kHz
10 kHz step	530 kHz-1,610 kHz
10 kHz step (U.S. and Canada)	530 kHz-1,700 kHz
Usable sensitivity	11 $\mu$ V/(280 $\mu$ V/m)
Signal to noise ratio	
(at 30% mod. 1 mV input)	50 dB
Total harmonic distortion	0.5%
Output level/Impedance	
(at 30% mod. 1 mV input)	0.18 V/3.3 k $\Omega$

### KT-591S only

#### Tuning frequency range

9 kHz step	531 kHz-1,602 kHz
10 kHz step	530 kHz-1,610 kHz

Usable sensitivity ..... 17  $\mu$ V/(560  $\mu$ V/m)

#### SW Tuning frequency range

SW1	3.2 MHz-7.3 MHz
SW2	9.5 MHz-21.85 MHz

#### General

Power consumption ..... 10 W

#### AC outlet

##### For U.S.A. and Canada

UNSWITCHED ..... 1 (800W 6.6A max.)

##### For U.S. military

UNSWITCHED ..... 1 (700W max.)

##### For other countries

UNSWITCHED ..... 1 (500W max.)

Dimensions ..... W: 440 mm (17-5/16")  
H : 75 mm (2-15/16")  
D : 264 mm (10-1/2")

Weight (Net) ..... 2.6 kg (5.5 lb)

### KT-1030L

#### FM tuner section

Tuning frequency range	87.5 MHz-108 MHz
Usable sensitivity (DIN at 75)	
MONO	0.7 $\mu$ V
STEREO	22 $\mu$ V
Total harmonic distortion (DIN at 1 kHz 65.2 dBf input)	
MONO	0.15%
STEREO	0.4%
Signal to noise ratio (DIN weighted at 1 kHz, 65.2 dBf input)	
MONO	68 dB
STEREO	63 dB
Stereo separation (DIN)	
1 kHz	48 dB
Selectivity	
(DIN $\pm 300$ kHz)	64 dB
Frequency response	
(30 Hz-15 kHz)	+0.5 dB, -2 dB
Output level/Impedance	
(at 1 kHz, 75 kHz dev.)	0.6 V/3.3 k $\Omega$

#### MW tuner section

Tuning frequency range	531 kHz-1,602 kHz
Usable sensitivity	13 $\mu$ V/(400 $\mu$ V/m)
Signal to noise ratio	
(at 30% mod. 1 mV input)	50 dB
Total harmonic distortion	0.5%

#### LW Tuner Section

Tuning frequency range	153 kHz-281 kHz
Usable sensitivity	22 $\mu$ V
Signal to noise ratio	
(at 30% mod. 1 mV input)	47 dB
Total harmonic distortion	0.6%
Output level/Impedance	
(at 30% mod. 1 mV input)	0.18 V/3.3 k $\Omega$

#### General

Power consumption ..... 10 W

#### AC outlet

UNSWITCHED ..... 1 (400W max.)

Dimensions ..... W: 440 mm  
H : 80 mm  
D : 264 mm

Weight (Net) ..... 2.6 kg

## KENWOOD CORPORATION

Shionogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

#### KENWOOD U.S.A. CORPORATION

2201 East Dominguez Street, Long Beach, CA 90810;  
550 Clark Drive, Mount Olive, NJ 07828, U.S.A.

#### KENWOOD ELECTRONICS CANADA INC.

P.O. BOX 1075, 959 Gana Court, Mississauga, Ontario, Canada L4T 4C2

#### TRIO-KENWOOD U.K. LTD.

KENWOOD House, Dwight Road, Watford, Herts., Wd1 8eb United Kingdom

#### KENWOOD ELECTRONICS BENELUX N.V.

Mechelsesteenweg 418 B-1930 Zaventem, Belgium

#### KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker-Str. 15, 6056 Heusenstamm, Germany

#### TRIO-KENWOOD FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

#### KENWOOD LINEAR S.p.A.

20125, MILANO-VIA ARBE, 50, ITALY

#### KENWOOD ELECTRONICS AUSTRALIA PTY, LTD.

P.O. BOX 504, 8 Figtree Drive, Australia Centre, Homebush N.S.W. 2140, Australia

#### KENWOOD & LEE ELECTRONICS, LTD.

Wang Kee Building, 4th Floor, 34-37, Connaught Road, Central, Hong Kong

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

KENWOOD strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.